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MAY 1950

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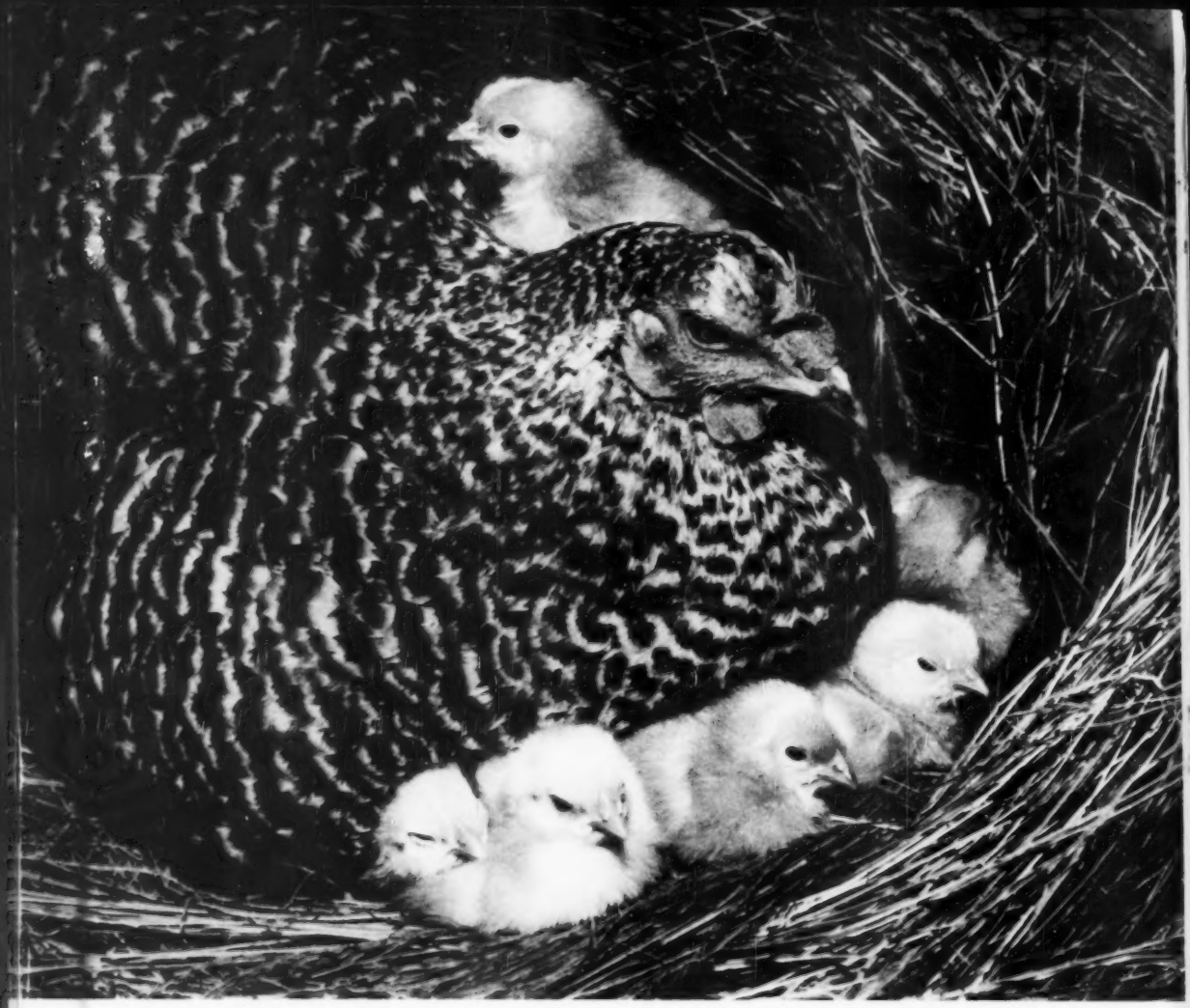

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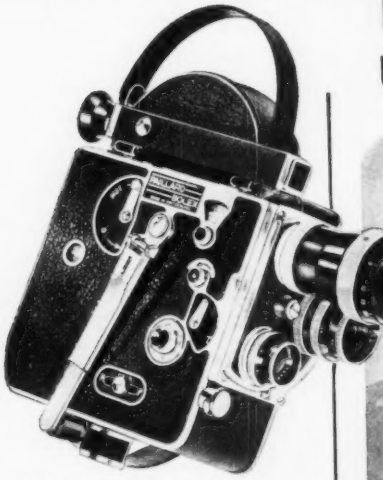
1946 Academy Award Winner, black and white Cinematography on the picture "Anna and the King of Siam,"

uses the Bolex H-16



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All new Bolex H-16 and H-8 cameras now include this fine precision instrument that gives you critical visual focus through the lens, from *behind* the camera . . . *and at no increase in price!* Available for older H model cameras, $43.41, Fed. tax, inc.

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MAY, 1950

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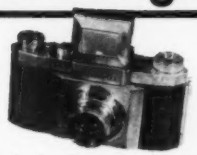

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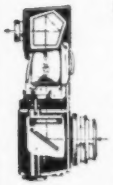

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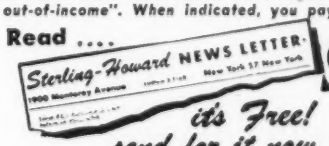

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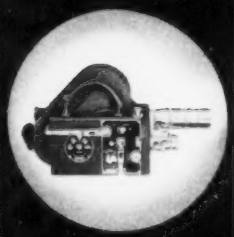

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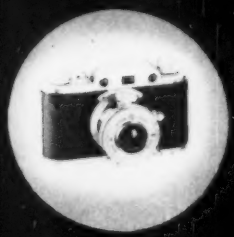

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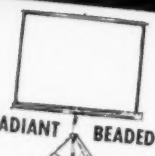

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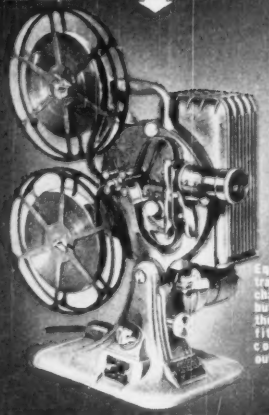

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Let's Talk PHOTOGRAPHY

By BRUCE DOWNES

PHOTOGRAPHIC literature up to this, the middle of the twentieth century, has been depressingly preoccupied with teaching the mechanics of photography until now the beginner with a camera is confronted with a wilderness of dogma from whose baleful influence it is extremely difficult to escape. The dogma finds expression in countless thousands of salon and camera club prints whose only distinguishing quality is their sameness. It is as if an aspiring writer were taught how to use the typewriter as his sole means of writing a novel.

Photography is far more than gadgets, chemicals, lenses and rules of composition. Photography is seeing, thinking, feeling and expression. A man with a camera can be a man with a gadget or he can be a man with a graphic means of expression through which he can create pictures that are in essence extensions of his own experience and personality. But nobody ever tells the beginner anything about that. The books tell him how to make correct exposures, develop and print, how to use lights, how to focus, but the farthest they ever go in guiding him to subject matter is to give him examples to imitate. No wonder the amateur is forever asking the anxious question: "What shall I photograph?" and falls such easy prey to the salonists who obligingly and glibly specify! The poverty behind such a question would be made plain were we to hear a writer ask, "What shall I write about?" or anyone inquire, "What shall I think?"

It is a fitting and a happy omen, then, that at mid-century, a breath of fresh air and maturity has suddenly come into photographic literature, and that it has come from Jacob Deschin, Camera Editor of the *New York Times*, a man who himself in his time has contributed his share to the how-to-do-it fund of literature.

In his new book *Say It With Your Camera*, he has written the most important instruction book for the amateur photographer to appear in the past decade.

Say It With Your Camera is an inspired and inspiring book, whose importance is belied by its trivial title and only hinted at in its sub-title, *An Approach to Creative Photography*. In it, for the first time, photography is approached not merely as something one does with a camera, but what can happen when a man lives through his camera. While photography has been described and discussed by other writers *as a language*, Deschin, without using the phrase, makes a real contribution to the syntax and philosophy of that language, clarifying for the first time the deep relationship that must exist between a man and his camera, as a medium of expression, before he can make pictures that are genuinely his own.

Here for the first time technical considerations are subordinated to the basic substance of photography, which lies not in the equipment or the chemicals but in the individual himself. Hence *Say It With Your Camera* begins not with the camera but with the individual, deals less with technique than with thought, feeling, and understanding. It clarifies the true relationship of the photographer to his camera, reveals genuine values, and leads the way out of imitativeness and into creative originality through self-understanding.

Admittedly, *Say It With Your Camera* is only a beginning, "a rough sketch rather than a complete blueprint for personal achievement in photography." In detail, it has unrealized areas, some contradictions, some confusions in nomenclature, but these are but the expected by-products of trail-blazing. Although it lays itself open to criticism now and then, it has a wholeness and simplicity of statement that is incontrovertible.

Fresh and inspiring, *Say It With Your Camera* is a real contribution to amateur photography in America. It should hereinafter be considered *the* basic book for the amateur who wants sound orientation and a way to tap his own inner resources. Deschin has brought clarity out of chaos and shown the way of photography as a truly expressive medium.—▶

Naturalness is the keynote of this picture, one of the many by Deschin which are reproduced in his book.

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The wonderful action shot on the left is the work of N. Y. I. graduate, Victor de Palma—one of the *big* names in photography. This photograph of his brother John, taken at Davis High School, Mt. Vernon, won exhibit space in the Museum of Modern Art's Best Photography Section, and was reproduced by one of America's top

magazines. Data: Rolleiflex—Eastman Kodak XX—1/500th at *f*/8. Incidentally, you'll find Victor de Palma credit lines in Life, Fortune, Cosmopolitan, Nation's Business, Modern Industry, and many other leading publications.

Success in photography is not only for those who have the time to attend N. Y. I.'s Resident Courses. Hundreds of successful photographers all over the world who own their own Commercial and Portrait Studios, or who hold down jobs paying big money, are alert men and women who wisely used their spare time to *train* at home.

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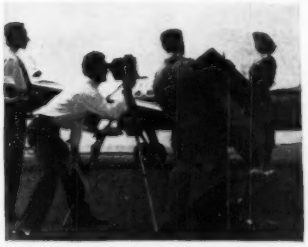

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PRESS NEWS

By A. J. Ezickson

TWO young Miami Beach hoodlums apparently attempting to steal his camera were beaten off by Robert Verlin, *Miami* (Fla.) *Herald* staff photographer. Verlin's shirt was torn in the melee, but he was uninjured. Verlin said the two men set upon him when he returned to his parked car near Ciro's night club, where he was covering an assignment. Without speaking, one pulled him from the car, while the other started opening the luggage compartment where he had just stored his camera. Verlin grappled with the first assailant, who broke free and fled. Then he tackled the second man working at the luggage compartment. Verlin proved too much for the assailant. He, too, ran away.

Robert Verlin

* * *

THE Wisconsin Press Photographers Association is only one year old but has grown from fourteen founding members to sixty four. Their second annual meeting in Milwaukee recently was an enthusiastic round of interesting lectures and a business meeting at which Robert Boyd of the *Milwaukee Journal* was elected president. Edgar Timm, *Wausau Daily Record Herald*, the retiring president was elected vice president. Harry Larson, *La Crosse Tribune*, was elected 2nd vice president, Frank Waltman, *Appleton Post Crescent*, secretary, and Lowell Larson, *Columbus Journal Republican*, treasurer.

New officers of the Wisconsin Press Photographers Association are, from left: Edgar Timm, vice-president; Robert Boyd, president; Lowell Larson, treasurer; and Frank Waltman, secretary.

Donna Lee Hickey, center, reigned as queen of this year's New York Press Photographers' Ball. At left is Marion Storzinger who won third place; at right is Elaine Sherman, who took second place.

"Not Now" won grand prize and first award in the feature class of White House News Photographers Assn.'s annual photo contest for Aaron Miller of the *Washington Daily News*.

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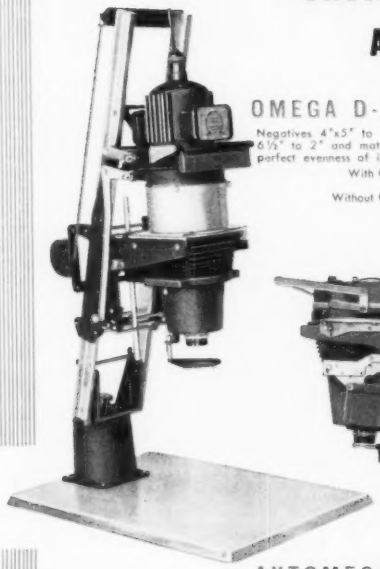

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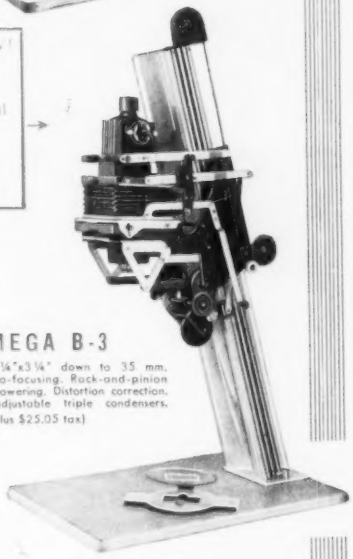

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CAMERA CLUBS

For Your Mailing List

Have your club secretary jot down the names and addresses listed here. They belong to recently-organized groups of amateur photographers who are sincerely interested in corresponding with you, with the intention of exchanging ideas and helpful information.

Rosewood Camera Club is a non-denominational group which meets at Rosewood Methodist Church, 501 N. New Hampshire, Los Angeles. Instruction in studio and darkroom techniques is given to members by a competent staff headed by Hal Coolidge, magazine photographer.

The recently-formed *McDonnell Aircraft Corporation Camera Club* had nearly 50 members when last heard from, and has been growing rapidly since its inception. These people would appreciate having your recommendations on club organizational and operational practices. Write to Carl Baaman, RD #2, St. Charles, Mo.

Ideas for club activities are sought by *Idaho Falls Camera Club*, whose members engage in color and monochrome photography. Correspondent here is Boyd S. McNeil, 337 A. St., Idaho Falls, Idaho.

Traveling Movie Salon Circulating in California

Believed to be the first event of its kind in amateur cinematography, the traveling movie salon sponsored by *Northern California Council of Amateur Movie Clubs* goes on tour in April and is booked until July. Open to any amateur filmer anywhere, the salon is composed of films submitted in a contest featuring a sizable list of worthwhile prizes. More than 20 amateur movie clubs located north of Fresno in California comprise the *Council*. Additional information concerning the organization can be obtained by writing to Jack Harris, 315 Ranelagh Rd., San Mateo, Calif.

We Hear . . .

THAT the "minimum print" requirement has been abolished officially by Chicago's *Green Briar Camera Club*. From here in, members no longer need submit any given minimum of prints or slides in order to remain eligible for membership. This is, we feel, a wise move. We realize that prints and print-making are a vital and necessary part of camera club activity, and that a print night without enough prints is dismal and demoralizing. But equally undesirable is the making of a print—just *any* old print—for the sole purpose of "staying eligible." And this latter practice has been resorted to often enough by many a clubber who for various reasons has been unable to make significant pictures for an extended period. Most of you have seen such horrible work entered and heard the entrant say, whimsically, "Well, I submitted a print, didn't I?" We don't know, of course, that this sort of thing is what prompted *Green Briar's* action—for all we know (and it's not too unlikely, either) this outstanding club just simply got loaded down with good prints. Whatever the reason, we know it's a good one, because few aggregations anywhere can come close to *Green Briar* in the matter of producing fine prints, in quantity.

A few more members are wanted by *Temple Camera Club* in Brooklyn, N.Y. The group meets each Monday evening at Union Temple, 17 Eastern Parkway, and has a helpful program of instruction and print analysis under way.

Club Fotografico de Mexico (judging from illustrations in a recent issue of its "Boletin") is doing really impressive work in photography of the nude figure. May we hope to see some of the original prints in our Vanqui salons soon, S-fores?

And now join us while we sip a glacial acetic toddy with Editor Jim Oatis, of the *Meraden (Conn.) Camera Club's* "Synchronizer." Jim and this department happen to see eye to eye on the matter of some of the stuff which is passing nowadays for impressive camera art. In Jim's own well-chosen words, a lot of the so-called great photographs of today "seem lousy until you read that the maker is an exciting personality. It seems that if you can't get print quality or compose an interesting picture you simply have some guy explain that all this nonsense about pictorial photography really means nothing, and that the Sunday snapshooter's snapshot is really dynamic and modern." Editor Oatis suggests that an interesting club assignment might be executed as follows: "Take a picture with your eyes shut and develop the negative in Kodalith developer. Then write an essay telling how you are in tune with this modern world and how your camera cuts through the sham. . . ."

Man after my own heart, that Oatis. I'm tired of beautifully composed wagon wheels and winding roads, too, but this latest Threat—the Beach Snapshot which is exalted by being called "significant"—kills me. Man the barricades!!

—*Whit Hillyer*

Popular Photography's Traveling Salons

THESE Salons, comprised of prize-winning prints from the POPULAR PHOTOGRAPHY Contests, represent some of the finest examples of contemporary photography. They are available to clubs, libraries, stores, and other organizations open to the public. While our schedules are currently filled, we will be glad to supply information and place you on our waiting list to receive a Salon. Please write: Traveling Salon Dept., POPULAR PHOTOGRAPHY, 185 N. Wabash Ave., Chicago 1, Ill.

April 8-22

CALIFORNIA, San Francisco—Galileo High School; Second Salon.
FLORIDA, Winter Haven—Camera Craft (110 West Central Ave.); Fifth Salon; April 15-22.
INDIANA, Auburn—Auburn Public Library (Auburn Camera Club); Third Salon.
LOUISIANA, Lake Charles—Mac's Camera Shop; Second Salon; April 8-29.
MISSOURI, Boonville—Kemper Military School; Fourth Salon.
NEW HAMPSHIRE, Concord—Concord Camera Club; Fourth Salon.
NEW YORK, Orangeburg—Shanks Village Camera Club; Fifth Salon; April 1-15.
NEW YORK, Schenectady—Union College Photographic Society (College Art Gallery); Third Salon.
OHIO, Lancaster—Hocking Valley Camera Club; First Salon.
PENNSYLVANIA, Wallingford—Community Arts Center (Nether Providence Camera Club); First Salon; April 5-30.
TEXAS, Ft. Worth—Texas Christian University Art Gallery, Fine Arts Building (Ft. Worth Photographic Society); Fifth Salon.
WASHINGTON, Wenatchee—Johnson, Doell & Company; Fourth Salon.
WISCONSIN, Greendale—Greendale Library; Fourth Salon.

May 13-27

CALIFORNIA, Alameda—Alameda Photographic Society; Fourth Salon; May 13-20.
CALIFORNIA, San Francisco—The Emporium; Fifth Salon.
CANADA, Arvida, Que.—Recreation Center (Arvida Camera Group); Third Salon.
FLORIDA, Miami—Burdines; Fifth Salon.
ILLINOIS, Savanna—Savanna Camera Club; Fourth Salon.
IOWA, Knoxville—Medical Library (Veterans Administration Hospital); Fourth Salon; May 6-20.
LOUISIANA, Jennings—Duncan's Camera Shop (Jennings Camera Club); Second Salon.
MARYLAND, Perry Point—Recreation Hall (Veterans Administration Hospital); First Salon.
MASSACHUSETTS, Cambridge—Buildings 3 and 11, Mass. Inst. of Technology (Mass. Inst. of Tech. Photographic Service); Fifth Salon; May 2-15.
MASSACHUSETTS, Amesbury—Amesbury Public Library (Amesbury Camera Club); Fourth Salon; May 6-20.
NEW YORK, Elmira—Club Rooms, Bodex Aviation Corp. (Elmira Heights Camera Club); First Salon.
VIRGINIA, Charlottesville—University of Virginia (Photographic Society); Third Salon.
WASHINGTON, Spangle—Library and Display Room (Upper Columbia Academy); Second Salon; May 6-20.

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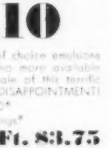

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F5.5 Schneider Xenar, Kodamatic Shutter	L.N.	24.50
F4.5 Carl Zeiss Tessar, Compur Shutter	V.G.	33.75

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F4.5 B & L Tessar, Compur Shutter	V.G.	29.50
F4.5 Ilex Paragon, ctd., Acme Synchro Shutter	V.G.	64.50
F4.5 Steinheil Unifocal, Compur Shutter	L.N.	27.50
F4.5 Voigtlander Skopar, Compur Shutter	L.N.	32.50
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F4.5 Meyer Trioplan, Ibsor Shutter	L.N.	27.50
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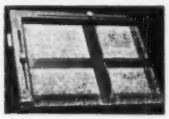

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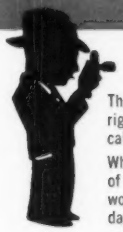

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FR PAPER DEVELOPER—Use for all contact and enlarging papers. Concentrated. Makes a full gallon!

FR FIXOL — Acid-fixing solution with hardener. Concentrated. Makes a full gallon!

FR RAPID FIXOL—Fixes negatives and prints permanently in one minute. Most economical fast-fixer on the market. Concentrated. Makes a full gallon.

FR LIQUID HARDENER. Can be used with RAPID FIXOL or any acid-fixer. For use under all hot-weather conditions. Concentrated.

ROLL FILM DEVELOPING TANK

"SPECIAL" ADJUSTABLE! World's largest selling developing tank. Guaranteed against breakage. Can be loaded from outside of reel. Inside loading feature permits loading even when tank is wet! Made of three different kinds of plastic to resist the action of all chemicals. Adjustable to all roll film—from 35 mm to No. 116.

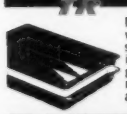
CUT FILM DEVELOPING TANK

Perfect for all cut film or film pack up to 4" x 5" or 10 X 12.5 cm. Loading guide makes darkroom loading easy. Films cannot buckle or touch each other during development. Special construction permits rapid filling, processing and draining in daylight. Made of chemically resistant plastics.

THERMOMETER

Fits easily into roll-film tanks and clips on the sides of cut-film tanks and trays. Stainless steel sheath protects glass tube against breakage. Extremely accurate. Responds quickly to slightest variation in temperature.

PRINTRAYS



Made in 3 safety colors, black, white and red . . . three to a set. Specially designed for ease in removing prints and for finger-tip agitation. Molded of durable plastic for prints up to and including 5" x 7".

PRINT FRAME

For roll and cut film up to and including 4" x 5". Lightweight and sturdy, made of pure aluminum. Sponge rubber pressure pads assure improved contact. Masks are included and can be cut to conform to the user's needs.

DARK ROOM ACCESSORIES

FR PRINTONGS—Gives you a sure grip on your negatives. Made of resilient, chemical-resistant plastic. Ribbed so they can't slide into the tray. Black for developer, red for fixer.

FR SQUEEGEE—For removing excess water droplets and stray dust from film. Sponges are resistant to chemicals and absorb twenty times their weight of water.

FR FILM CLIPS—Sure-bite jaws clamp film securely . . . PATENTED LOCKING DEVICE keeps clips from slipping off line. Attach or remove with a twist of the wrist. Made of heavy, stainless steel.

INTERVAL TIMER WITH A L-O-N-G RING

Here's stop watch precision and efficiency! A l-o-n-g r-i-n-g interval timer that you can pre-set before entering the darkroom. Also, repeats any interval from 1 to 60 minutes without re-setting! Just set your FR Interval Timer once and you can repeat that time interval as often as you wish in total darkness, with absolute accuracy. Eliminates darkroom fumbling.

Also Complete Home Developing and Printing Kits

if it's fR it's first rate!

FREE FOR YOUR DARK ROOM "Little Man" Light-Pull. It glows in the dark. Sent FREE. Address The FR Corp., 951 Brook Ave., New York 56, N. Y.

.7-inch T2.7 (f/2.5) B&H Super Comat. Standard C mount for 16mm cameras. Click stops. Filmocoted.

$85.25

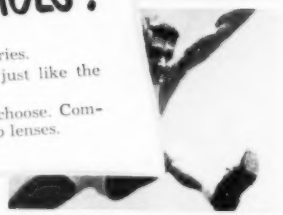
Another Bell & Howell FIRST! a great new family of fine lenses with these 4 EXCLUSIVE ADVANTAGES!

1. Highest degree of correction yet developed for 16mm film. Same sharpness and contrast for all lenses, regardless of focal length.

2. T-stop calibrations. Now, for the first time, absolutely uniform exposures at any given T-stop, with every lens in the series.

3. Uniform-step magnification—just like the lenses Hollywood studios use.

4. Widest range from which to choose. Complete family will include 7 superb lenses.



2-inch T1.6 (f/1.4) Taylor-Hobson Cooke Ivotal. Standard C mount for 16mm cameras. Click stops. Filmocoted. (Also available for B&H snap-on mount 8mm cameras.)

$169.20

2.8-inch T2.5 (f/2.3) Taylor-Hobson Cooke Panchrotal. Standard C mount for 16mm cameras. Extra legible depth of field scale. Click stops. Filmocoted. **$171.50**

4-inch T2.5 (f/2.3) Taylor-Hobson Cooke Panchrotal. Standard C mount for 16mm cameras. Extra legible depth of field scale. Click stops. Filmocoted. Nearly 50% faster than the fastest of any other leading 4-inch lens—400% faster than the slowest.

$198.35

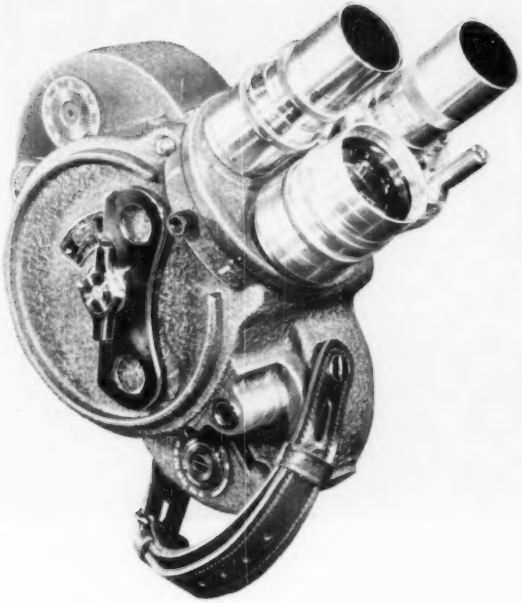
Each lens in the series covers *exactly* twice the area of the next longer lens. Greater accuracy—finer, more professional results—that's what these lenses mean for *you!* We think they represent the greatest advance in camera optics in years—and we think you'll agree! See them at your dealer's today!

Borrowing for the amateur the type of focal length series in our line of lenses for the Hollywood studios, Bell & Howell and Taylor-Hobson have put in years of research developing this fine series of seven lenses for 16mm motion picture cameras. The four illustrated above are available now.

You buy for a lifetime when you buy

Bell & Howell

Chicago 45



Another Hollywood favorite...

THE BELL & HOWELL 70-DE CAMERA is one of the most versatile in the 16mm field. It operates at seven governor-controlled film speeds, has a three-lens turret with matching positive finders. Other features are a critical focuser, rewind knob and hand crank to permit back winding of the film for lap dissolves and double exposures. A 204° open segment shutter gives a 1/40 of a second exposure at sound (24 frames) speed.

You buy for a lifetime when you buy **Bell & Howell**

Auto Load Owners! *Don't miss this!*

Now you can greatly increase the picture-taking possibilities of your Auto Load camera —at a special low price!

Your Bell & Howell dealer will convert your Auto Load to a turret model for only $59.95, complete! The usual price is $75.00. This offer is good only until July 1, 1950.

With summer coming you'll want to be prepared for all its movie-making opportunities. And with the B&H turret head on your camera you'll have 3-lens versatility at your fingertips.

Better act now. Take your Auto Load to your Bell & Howell dealer right away!

WAR SURPLUS!

F-8 AERIAL CAMERA with 15" f5.6 Wollensak Telephoto lens. 5x7 neg. on roll or magazine. Lens alone lists $208; Govt cost over $600.
Brand new, only $159.50
Used, like new, only 119.00
12 Septum magazine, used 27.50

MODEL J AERIAL FILM DRYER for continuous rolls film any length, width up to 9½". ½ HP AC motor. Complete, in case, new $145.00
Used, reconditioned 99.50

10x10 AERO SPECIAL ENLARGER complete with aerial roll - film bracket, handles all widths, to 200' length. 30" bellows draw. Uses 200 watt opal lamp in silvered reflector. Also for flat negs to 8x10". Brand-new, only $297.50
Hi-intensity arc, cold-lite 69.00

K-24 AERIAL CAMERA (made by Kodak). Manual or electric operation. Focal plane shutter to 1/900. Detachable magazine. Take lenses 3½" up.
K-24, less lens, brand-new ..... $ 37.50
Same w/7" f2.5 Aero-Ektar 99.50
Same w/5" f4.0 Wide-angle 89.50

Film and paper are outdated war surplus, guaranteed good. Items are offered subject to prior sale. Quantities limited.

FILM

5x7 EK Super XX film pack $1.25
8x10 Ansco Commercial .... 2 doz. 1.50
8x10 Ansco Comm. Ortho .. 2 doz. 1.50
8x10 Ansco Direct Copy ... 2 doz. 1.00
8x10 EK Wash-off Relief ... 3 doz. 2.00
8½x11 Litholoid Ortho .... gross 1.00
10x12 Commercial Ortho .. 2 doz. 2.45

FILM SPECIAL! Tropic packed, from government refrigerated warehouses — guaranteed good!
8x10 Ansco Commercial
2 doz. $1.50
8x10 Defender Arrow Pan
2 doz. 2.95

11x14 Commercial Ortho .. 1 doz. 2.00
20x24 Ansco & EK Comm. .. 2 doz. 5.95
20x24 EK Pan X ..... 1 doz. 5.95
20x24 Reprolith Pan ..... 2 doz. 5.90

PAPER

8x10 Ansco Cykon,
dw, #4 ..... ½ gross 1.25
8x10 Azo, dw, E4 ..... gross 1.95
8x10 Defender Apex,
dw, sm, B4 ..... gross 2.00
8x10 Contact, EO, dw ..... gross 1.50
10x10 Contact, lw, sm, 2E4 4 gross 2.00
10x10 Airmap chloride ... 2 gross 2.00
20x24 Azo, F2, sw, glossy. ½ gross 7.20

AN 8x10 SHEET OF KODABROMIDE FOR LESS THAN A PENNY! One box cuts 432 sheets of 8x10!
20x24 Kodabromide, sw, E#3,
½ gross $3.95

20x24 EK Bromide, lw, A4 . ½ gross 2.00
20"x30' Def Bromide, F3, sw .. roll 2.25
8½"x60' Haloid Copylight,
Grade A ..... roll .75
10½x18 Reflex copy XA 250 sheets 2.50
17x22 Reflex copy ..... ½ gross 2.50
22x34 Duophoto XX, thin . ½ gross 4.25
4¼"x825' Aerobrom, lw, A4 6 rolls 3.00
7"x825' Aerobromide, lw, A4 2 rolls 2.00
10x10 Defender Brom, sw,
glossy, F3 ..... gross 2.95
20x24 Azo, F5, sw, glossy. ½ gross 3.95
10x10 Bromide, sw, glossy Fl. gross 1.95

ROLL FILM

16mmx100' EK Tri X ..... per roll 1.25
16mmx100' EK Tri X ..... 3 rolls 3.00

AN 8x10 FOR LESS THAN ONE-THIRD OF A PENNY! Smooth surface, rich black tones, Resisto stock, single-weight, all tropical packed.
9⅜" x 1000' Kodak Aero-enlarging Bromide grades No. 2 and
No. 3 ..... per roll $4.95
Grade No. 4 ..... per roll 2.95
(shipping weight per roll 38 lbs.)

35mmx100' Kodak XX ..... ea. 1.00
35mmx100' Ansco Ultra Speed,
Supreme, Finopan ..... ea. 1.00
35mmx100' Ansco Ultra
Speed ..... 3 rolls 2.75
35mmx200' EK Plus X ..... ea. 1.95
35mmx400' Ansco Ultra Speed,
Supreme ..... ea. 2.50

LENSES

2" f4.5 Wollensak,ctd, Alphax,new 11.95
3½" f4.5 Ilex enlarging, ctd, new 19.50
3½" (4x5) f12.5 Wollensak Extr
W.A. in supermatic press 37.50
127mm f4.7 Wollensak
supermatic press 34.50

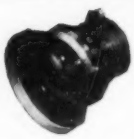
DEFENDER BROMIDE! For odd-size and extra-large prints. Guaranteed good!
20"x30' Defender Bromide, F-3,
sw, glossy ..... per roll $2.25

5" f4.5 Cooke 29.50
6¼"x8"x12" f6.3 Korona convt,
ctd Rapax Synchro 99.50
6¼" f12.5 Wollensak W.A. in bbl 22.50
6½" f6.3 Roussell enlarging, new. 14.50
6⅜" f4.5 Kodak Anastigmat,
Supermatic press 47.50
7½" f4.5 Kodak Anastigmat, bbl 39.50
8" f5.6 Cooke 39.50
8" f2.9 Dallmeyer 57.50
12" f5 Kodak Aerostigmat,
Betax 144.50
12"x19"x25" Turner Reich convt,
Ilex Acme 79.50
14" f4.5 Dallmeyer 79.50

KODAK ROLL PAPER, 4¼"x825' Bromide, for proofing, photocopy reproduction — hundreds of uses. Smooth surface, lw, with long scale.
14 rolls $5.60
6 rolls 3.00
(shipping weight; 10 lbs per roll)

K-17 FAIRCHILD AERIAL CAMERA. 9x9 neg. Late series cameras, of extreme precision. Full listing on request. All cameras guaranteed. Prices do not include accessories.
K-17, w/6" Metrogon, 24v ... $ 975.00
Same, brand-new 1725.00
K-17, w/12" Kodak Aerostig. 875.00
A5A magazine, used 37.50
A5A magazine, like new 58.03
B3B intervalometer, 24v 54.50
A2 vertical viewfinder 35.00
NR1A mounts, new 72.00

ELECTRIC AERIAL FILM DEVELOPING OUTFITS, include 3 nested stainless steel tanks, reel assembly, self-reversing motor for 110v AC-DC, fibre carrying case.
5½"x25', Smith-Patco, new $39.50
7"x75', Smith-Patco, new 49.50
9½"x200', Morse B-5, used 49.00
Also — Aeroflex outfit for short length 5¼" to 9½", new 9.95



7" f2.5 coated KODAK AERO-EKTAR. Sensational speed lens made with rare earth glass. Low cost adapters in stock for most cameras. All our lenses have click stops, engraved f-stop scale.
7" f2.5 ctd Aero-Ektar, new $79.50
Same, in Alphax Sync shutter 144.50
Same, in precision focus mnt 149.50

K-3B FAIRCHILD AERIAL CAMERA. 9x9 neg. Designed for oblique and vertical photos. One of the most popular mapping outfits. Reconditioned, guaranteed.
Prices do not include accessories.
K-3B, w/6" Metrogon, 24v $585.00
Same, with 8¼" Ross 495.00
Same, w/12" Kodak Aerostig 475.00

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Mother's Day - May 14

Snap your Queen of the day...with

G-E midgets!

Make this a special Mother's Day. Perhaps you can't bake her a cake . . . but you can find other ways to pay her a tribute. And be sure to flash pictures of the occasion . . . to keep!

Don't let Mother's Day pass without recording your tribute to her —shot with G-E Midgets. She'll be proud of the picture, and of the sentiment—and so will you for years to come. So, to be sure, shoot with G-E Midgets. They have that *punch of light* to stop action, catch every detail and fleeting expression. And for *every* celebration or party, keep G-E Midgets handy—just in case!

Remember, there's a G-E lamp for every photographic purpose . . .

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ON THE BEST PHOTO EQUIPMENT YOU CAN BUY

DE GROFF AIRWAY SHUTTER RELEASE
Don't Be Tied to Your Camera!
Operates your shutter from any position, any location—with bulb and any length of tubing. No more camera movement, no more damaged shutters—use a DeGroff Airway Shutter Release for portraiture, table-top stills, bird and animal shots, etc. Ideal for miniature cameras, too!
Reg. Size $5.00 Large Size $8.50

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BOES
35mm DAYLIGHT FILM LOADER
Save $15.80 on 100 Ft. of Film!

In just a few minutes, you reload any 35 mm film cartridge, using any kind of bulk film! You just put your bulk film in the light-tight, dustproof compartment—up to 100'—and the automatic frame counter enables you to load whatever number of frames you want. Simple, economical!.....$9.95

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New!
HOLLYWOOD ESCALATOR TRIPOD
Up or Down—In Seconds!

A variety of new features makes this an ideal tripod for almost every kind of photography. Positive, smooth-action elevating mechanism, with crank-handle can be swivled out of cranking position; new leg stops so that tripod cannot collapse; head reverses for low-angle shots; patented Klutch Kontrol. Extends to 72½", folds to only 26½".
Each $44.47

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FINE PHOTOGRAPHIC EQUIPMENT FOR OVER 53 YEARS
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TOOLS & TECHNIQUES

By NORMAN C. LIPTON

A round-up of recent developments and significant trends

Xerography will soon be used to provide the U.S. Air Force with enlargements of microfilmed engineering drawings which are supplied to contractors in large quantities in the course of aircraft procurement. This is the first large application of the unique electrostatic reproduction process, which was developed jointly by the Haloid Company of Rochester and the Battelle Memorial Institute of Columbus, Ohio, and disclosed in the latter part of 1948 (see *T & T* for January 1949). The Air Force states that its microfilms can be blown up as much as 20 times to produce xerographic prints 22 by 34 inches—at a fraction of current reproduction costs. Laboratory equipment for printing microfilm by Xerography is being tested at Air Materiel Command headquarters in Dayton, Ohio. Meantime, a printing machine combining all of the separate elements of the laboratory model is now being developed by the Haloid Company to meet Air Force requirements. It is expected to be ready for production testing sometime after July of this year.

The Steineck A-B-C wrist-watch camera first reported in this department in March 1949 is now being nationally distributed by the Ercona Camera Corporation of New York. Equipped with f/2.5 anastigmat lens, a one-speed shutter (1/125 second) and two finders—one for sighting at waist level and the other for eye-level viewing—the A-B-C camera makes eight 3x4-mm pictures on a circular film disk. The camera is priced at $150. An accessory A-B-C enlarger is also available from Ercona for making enlargements up to $2\frac{1}{2}$x$3\frac{1}{4}$ inches (on the baseboard) from Steineck camera negatives (and even larger when projected to the floor). The enlarger, which is priced at $150 complete with f/2.5 lens, accommodates larger mini-miniature negatives as well—the aperture at the film stage having a diameter of $\frac{3}{8}$ inch.

A technical supplement to the *PSA Journal*, official publication of the Photographic Society of America, made its debut this past February under the title *Photographic Science and Technique*. Of particular interest to far-sighted "working photographers" in the content of this 24-page technical supplement were: (1) a paper by Prof. Harold E. Edgerton of M.I.T. ("grand-daddy" of electronic flash) describing the uses and structure of a light meter which he designed for electronic flash photography; (2) the original paper on G-E's new FT-110 "low-voltage, low-power, high-efficiency" flashtube by Messrs. E. B. Noel and P. B. Davis (see *Tools and Techniques* January 1950), and (3) *Contrast Grading Problems of Photographic Papers* by John M. Centa which gives the "lowdown" on why so-called normal printing papers range from mushy to contrasty and suggests what is being done about it. The *PSA Journal* and its fascinating new technical supplement, which hereafter will be known as Section B of the Journal, are both distributed without charge to members in good standing of the Photographic Society of America.

Assuring Color Fidelity. Eastman's data books on Ektachrome and Kodachrome have been especially rewarding to professional color workers in the recent past. In addition to procedures for lighting, exposing, and handling these materials after exposure, recent editions have given us methods for achieving precise color balance. During the past few months, this information has been supplemented by data sheets packed with each package of Eastman professional color material advising the user how to overcome the effects of reciprocity failure when high-speed flashtube exposure or long exposures by relatively weak light are made with the particular emulsion.

The cycle of information has been rounded out by an even more recent addition to Kodak literature—a 32-page booklet entitled *Storage and Care of Kodak Color Films*, obtainable without charge from the EK Sales Service Division, Rochester 4, N.Y. This publication is a comprehensive and conscientious review of all the steps the photographer can take (in the way of pre-exposure care and post-exposure storage) to assure optimum color fidelity and picture quality. It reveals the fact that color film intended for use within 2 months of purchase may be stored at temperatures up to 75 F; 6 months to 60 F; 12 months, below 50 F (under refrigeration). Further along, we learn why Davison's Silica Gel Air Dryers are among the best of available desiccating agents, why calcium chloride is unsatisfactory, and how dried-out rice or tea leaves may be substituted for silica gel. There are scores of other practical suggestions that are bound to help anyone who has exposed more than a couple of rolls or sheets of color material, even among users of competitive brands.

Odds & Ends. Details of a fully automatic motion picture camera incorporating a photoelectric cell that automatically sets the lens aperture for "correct exposure" were disclosed to the membership of the Rochester Technical Section, PSA, last February by Paul Cherney, head of Alfa Photo Products, New York import concern. Made by the *Agfacamerawerk* under the trade-name Movex 8-L, the new cine camera is reminiscent of the Super Kodak 620, a de luxe still camera which was available here before the war. Importation plans for the Movex camera have not as yet been negotiated, as far as we can learn.—▶

How to Save Money...

on the Best Photo Equipment You can Buy

When you want the best photo equipment that's made, at prices that will surprise you, find out what Burke & James' dealers have! Burke & James, Inc., has a huge variety of photographic products — but every single one MUST be an outstanding value. Want proof? Write today for the latest Burke & James catalog.

B&J

SPEED-PRESS CAMERAS

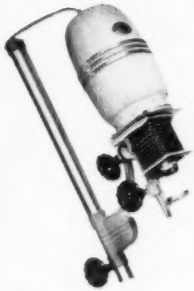
You save $30-$50 with a B&J Speed Press, and you get 24 important features. Your "Basic" camera start with camera and a general-purpose lens, build to your needs as you want. Perfect for everything from fast action to table-tops and portraits! 2¼x3¼" or 4x5" sizes, less lens and flashgun. EACH $69.50

Ciro-flex CAMERAS

Best reflex camera buy on the market — all the features of cameras selling for twice as much! You get a print-size preview on the ground glass viewing panel. Five models, to $148.75. With Alphax auto-shutter (1/10-1/200) and 85mm F:3.5 coated Wollensak lens. EACH $76.98

Ciro-35 CAMERA

Includes coupled rangefinder, built-in flash synchronization. With F:4.5 coated Wollensak lens, Alphax shutter (1/10-1/150)..... $49.50



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TRADE MARK

Only moderately-priced enlargers with double adjustable condensers, over-sized non-actinic baseboard, easier precision focusing, table-top switch, and many other exclusive features. Eleven models, as low as (Less lens. Fed. Ex. Tax, $9.18) $55.00

REXO DRYER
For prints up to 18x24", reduces drying time to a fraction. 110 Volt A.C. $52.00

GROVER UNIVERSAL VIEW CAMERAS
A portrait, view and commercial camera all in one. As low as $84.50

B & J VIEW CAMERAS
The camera of 1000 uses. As low as $64.50

REMBRANDT PORTRAIT CAMERAS
Designed exclusively for the portrait photographer. As low as $69.50

B & J STUDIO STAND
Portable type. Includes tilt top, swings to 90°. EACH $39.50

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Please send me the new 53rd annual B&J catalog with 64 pages of full details about photo equipment.

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TRIPODS

THREE SECTION Metal Tripod with Spiratone Panhead. Nothing was ever offered to compare in value with this inexpensive outfit. The legs fold down to 18", extend to 45"; the tripod weighs 15 oz. and will satisfactorily support medium and lightweight cameras. **$2.95**

Shipping Weight 2 lbs.

FIVE-SECTION Brass Tripod.

For five years, we have been selling this extremely popular tripod at $7.00. Now a lucky purchase makes it possible for us to offer the same tripod at $4.98. Ideal for the owner of a 35mm, light reflex or folding camera, this tripod extends to 56", telescopes to 14" and weighs only 20 oz. Its head is reversible for foreign and domestic cameras. **$4.98**

Shipping Weight 5 lbs.

WALNUT TRIPOD with Adjustable Extender

We don't dare mention the original cost of this solid stained walnut government surplus tripod with brass fittings and recommend it only to the meticulous photographer who appreciates an exceptional buy. Whether you own a miniature or a press camera, if you want extreme sturdiness, this is it. Tripod can be disassembled in a few seconds to a 15½" package. It extends to 41½", 60" with the Extender. Single turnbutton raises your camera to 18" above tripod. **$7.77**

Shipping Weight 6 lbs.

EXTENDER ALONE, reg. $3.95—$1.98.

IMPORTED POCKET

Tripod. Only 9" long when telescoped. It fits into any gadget bag, hardly sticks out of your coat pocket. Weight: 8 oz. Yet, its seven all metal sections extend to over 44", 53½" with the extender you receive with the tripod. Legstops and rubber tips prevent slipping on any surface. **$7.99**

Shipping Weight 2 lbs.

POLE Tripod. We are proud to offer this exceptional tripod for the serious worker who appreciates the advantages of a convenient elevation mechanism, combined with extreme sturdiness. A unique brace arrangement not only holds the pole perfectly steady, but also assures 100% support for the heaviest cameras, through its tight hold on the legs. This two-section all-metal tripod folds down to 25", weighs 4½ lbs.; its pole is adjustable from 38" to 55" above floor level; a single twist locks legs in position; reversable metal-rubber tips; camera base can be used for panning. Ideally suited as projector stand (Projector top $1.95 extra). Designed to sell for twice our price of **$10.98**

Shipping Weight 5 lbs.

DIRECTOR Eye-Pan Tripod (formerly sold as American Boiex tripod at $43.20). One of the greatest values ever offered. Panhead locks and unlocks with quarter turn! Tripod folds down to 29½", weighs only 5 lbs., yet it extends to 64"! Supports cameras weighing up to 200 lbs. Reversable steel tip and rubber feet. For the still or movie photographer who desires the very best. **$15.89**

Shipping Weight 7 lbs.

ELEVATOR TRIPOD

with panhead. Insure steady pictures at any camera angle; unsurpassed for motion picture work, indoors and outdoors. Legs cannot overspread; heavy duty panhead has degree marked base for continuity still shots. Height fully extended 68½"; when closed 34½". Elevator rise 12½". Weight 5 lbs. Postpaid **$18.95**

SPIRATONE PANHEAD

A chromium-finished tilthead which sturdily supports the heaviest movie, 35mm, 2¼x3¼, 2¼x2¼ cameras. Single motion panning and tilting action, locked by simple turn of the handle. **$1.89**

Shipping Weight 5 lbs.

THREE NEW **8MM TELEPHOTO SENSATIONS**

For all 8mm Revere, Keystone, Perfex, Delur, Franklin and Briskin cameras.

Reg. $39.95

MORTON BETTAR $10.95

This superb coated focusing telephoto lens screws into or fits over your present lens, doubling effective focus length without any loss in speed. If your normal lens is a ½" f:1.9 lens, the Bettar makes it a f:1.9 telephoto, and so on. No installation required. Built-in lensshade and filterholder.
The Bettar is also available for 8mm B&H cameras and most 16mm cameras.
Be sure to state what make, model, speed normal lens you have when ordering the Bettar.

Reg. $48.45

BERTHIOT 1⅜" F:1.9 $29.95

This ultrafast coated focusing telephoto lens, made by the best-known French lens manufacturer, represented a real buy at its original list price. At our low price, no 8mm camera owner can afford to pass it up. Magnification is almost 3X linear (nine times the area), definition is excellent even at the largest opening. A lensshade is built in.

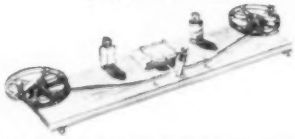
SWISS 1½" F:3.5 $19.95

From the "land of precision," we have received our first shipment of coated focusing telephoto lenses which we are offering you, after exhaustive tests, at one half the cost of domestic lenses which are equal in features and performance. This lens, in a neat chromium mount, focuses from 3 feet to infinity, gives 3X linear (nine times the area) magnification.

Other 8MM Telephoto Lens Specials:

2" f:2.5 CINEPAR, coated, fixed focus, reg. $39.95 — $29.95
1½" WOLLENSAK, focusing, coated, f:3.5, government surplus — 24.50
2" f:3.5 BELL & HOWELL EYMAX, focusing, reg. $49.00 — 24.50
3" KODAK f:4.5, focusing, government surplus — 29.95
2" and 3" lenses not recommended for 8mm turret cameras.

COMPLETE MANSFIELD
EDITING OUTFIT $6.95
Specify 8mm or 16mm



Special arrangements with the manufacturer enable us to offer you, for the first time in the history of movie-making, a complete editing outfit of a brand new design, at an unbelievably low price. The radically different viewer accommodates both 8mm and 16mm films, the popular stainless metal Mansfield splicer carries a lifetime guarantee, and the novel rewinding facilities accommodate up to 1600 ft. reels! Wooden board has suction rubber tips. Complete with 3 metal 8mm reels and cans or 3 Goldberg 16mm reels, splicing cement, instructions $6.95.

Deluxe Model, same as above, but with new Mansfield Autosplice with built-in scraper (a $6.95 value), less reels & cans **$9.95**

Shipping Weight 6 lbs.

Save up to 75% on Famous Make
METAL REELS AND CANS

All of them first quality, most of them brand new, some government surplus. Made by B&H, Goldberg, Compco and others.

SETS OF REELS AND CANS

8mm 200 ft 7 for $1.98	16mm 400 ft 4 for $2.98		
8mm 300 ft 6 for 1.98	16mm 800 ft 3 for 2.98		
8mm 400 ft 5 for 1.98	16mm 1200 ft 2 for 4.98		
	16mm 1600 ft 2 for 5.98		

Shipping Weight, per package, appr. 6 lbs.

Worth Double!
GADGET BAG $2.79

Made of a durable plastic, the bag measures 10"x3"x7"—ideal for 35mm, reflex and movie cameras. An extra inside pocket, a large outside pocket with zipper, an adjustable carrying strap—a lot of bag for **$2.79**

FIVE FREE 2¼x3¼ COLOR PRINTS

Your purchase of four of our guaranteed Anscocolor safety reloads, to be processed by us, entitles you to FIVE FREE 2¼x3¼ COLOR PRINTS OF YOUR CHOICE. You pay our low $1.50 price for the film, $1.00 for the processing—no more. Send $10.00 and receive four reloads (to be returned for processing by us, prepaid), and a coupon entitling you to five color prints, worth $2.50.

"PROJECTION POSITIVES"

The most thrilling way of presenting your pictures. These transparencies are printed from your 35mm black and white films without changing them in any way. Each negative is individually exposed on a fine grain safety film—you'll enjoy the rich tones which Spiratone Projection Positives will reveal in your photographs. Let us make transparencies from your old films, too, so you can relive the happy memories of the past! 20 exp. roll 60c, 36 exp. roll $1.00, 65 exp. roll $1.75

Save on Guaranteed Spiratone
35MM RELOADS

Spiratone 35mm reloads in metal cartridges are clearly labeled with brand, number of exposures and expiration date. Your choice of Kodak Panatomic X, Plus X, Super XX or Ansco Supreme. 20 exposures: Each 35c, 8 for $2.00, 18 for $4.00. 36 exposures: Each 50c, 5 for $2.00, 11 for $4.00.
Exclusive with Spiratone: Factory-fresh safety Anscocolor, both Daylight and Tungsten types, 20 exposures. Seven for $10.00. **$1.50** postpaid
This film is unconditionally guaranteed to be in every respect equal to factory-packed Anscolor film and is not to be confused with reloaded motion-picture (nitrate) film generally sold at a lower price. Expiration Date at least one year from date of purchase.

"ANSCOCOLOR PROCESSING" $1.00
20 exp. roll—incl. mounting—72 hour service
Write for free mailer and price list on all Spiratone black and white and color services.

Our factory finished our 35mm Enlargers far behind schedule, much too late for us to sell them during the winter season—and we are stuck with a large quantity, taking up storage space badly needed for other incoming merchandise. Therefore, we are offering our enlarger, formerly advertised at $22.08, at a ridiculously low price.

35MM ENLARGER $9.95
Complete With Lens

At that price, you would expect a stamped out, tinny looking unit; yet the SPIRATONE 35 is a neat die-cast job, made to sell for more than double our low price. The 100 watt bulb assures short exposures, while a diffusing glass evenly illuminates the entire negative. The 2" f:6.3 lens in a focusing mount creates a crisp, sharp image with maximum detail. On the baseboard, enlargements up to 6"x8" are possible; by turning the enlarger, enlargements of virtually any size can be made.
In a matter of seconds, the Spiratone 35 can be disassembled to take up no more storage space than 11"x17"x5", thus not representing the usual "where-to-put-it" problem.

Shipping Weight 7 lbs.

ALL-METAL SLIDEFILE $1.98
Holds 300 redimounts or 150 glass slides, reg. $3.25—Two for $3.75; 4 for $7.00

Shipping Weight, each 5½ lbs.

Imported All Metal
SELFTIMER $2.95
plus 34c f.e.t.

Another Spiratone Exclusive! This is the only delayed action timer of this type which screws directly into the cable release socket. It features a first rate mechanism, adjustable time lapse and an automatically resetting release pin—to prevent damage to the delicate shutter mechanism. Models to fit every camera—please state what you have.
A similar unit is available to work in conjunction with your cable release. $2.95 plus 34c f.e.t.

MONEY SAVING SPECIALTIES

At Last! Almost Every 35MM Fan Can Now Shoot, View and Project In

STEREO

It sounds too good to be true—that is why we are offering you STEREOLIX on a 30-day money-back guarantee.

STEREOLIX is an optical device which is inserted into your projector lens barrel (in most cases without any additional installation), between slidecarrier and actual lens. STEREOLIX causes the two Stereo-Tach taken images to overlap on the screen, enables the spectator to obtain a breath-taking three-dimensional view—an effect till now practically unachievable other than through slide viewers.

Objects on the screen almost seem to pop out: You feel that you are standing again on the spot on which the picture was taken.

STEREOLIX, complete with all you need for stereo projection, and simple instructions, to fit all Argus, Kodak, SVE, Ampro, B&H, B&L, Spartus, Marton, Vokar, Spencer, Skan, T.D. C., LaBelle, Gold-E and Viewlex projectors. **$9.95**

The STEREOTACH is instantly attached to your camera—Leica, Contax, Argus, Kodak 35, Perfex, Bolsey, Clarus or Kine Exacta—and creates a stereo negative or transparency. The Stereo Viewer accommodates standard 2x2 mount—the same mounts that you project with Stereolix. Outfit contains Stereotach for camera, Viewer, one roll of Anscocolor and one roll of black and white film—including free processing by us for stereo viewing and projecting **$19.95**

Rush your order to us—we'll cheerfully refund your money (less films and processing cost), if you return Stereotach, Viewer and/or Stereolix to us within thirty days: In fact, if you don't agree with us that Stereo is the most beautiful thing in photography.

SPIRATONE

TELEPHOTO & WIDEANGLE LENSES for 19.95 PLUS $2.25 F.E.T. EACH LENS

35mm

ARGUS C2, C3, A2, 21, MERCURY II, KODAK 35 RF, BOLSEY B, B2, PERFEX 44, 55, DE LUXE, 101, 102, RETINA, CLARUS, and all other 35mm cameras with f:2.7, 2.8, 2.9, 3.5, 4, 4.5 or 5.6 lenses.

All Spiratone lenses are color-corrected, coated, individually numbered. A fine leather case is supplied free with each lens. Our ten-day money-back and a life-time guarantee cover every lens.

The Spiratone Telephoto lens doubles the size of your subject matter on the negative or color slide—eliminates unwanted background from the start. Yet, no compensation is required in exposure, lens opening, distance setting.

The Spiratone Wideangle lens greatly increases picture area covered by your normal lens, makes shooting in narrow spaces possible. No effect on exposure or lens opening.

Special Combination Offer: Set of telephoto and wideangle lenses for any 35mm camera with f:2.7 or slower lens. **$35.50** PLUS $4.50 F.E.T.

Viewfinders: For Telephoto $4.38. For Wideangle $4.38. Save by ordering finders at the same time as the lenses and pay only $1.95 for each finder.

NOW AVAILABLE. TELEPHOTO AND WIDEANGLE LENSES FOR REFLEX CAMERAS AND F:2 35MM CAMERAS.

If you own an ARGOFLEX, CIROFLEX, KODAK REFLEX, IKOFLEX, ROLLEIFLEX* or ROLLEICORD* (non bayonet), or a RETINA II f:2, CONTAX II, III, Sonnar, LEICA Summar or Summitar, we have a Telephoto and a Wideangle Lens for you.

Each Lens $29.95, plus $3.25 f.e.t.

Set of both lenses $54.00, plus $6.50 f.e.t.

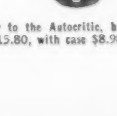
*Rolleiflex Bayonet Lenses $3.50 additional.

Reg. $26.95

DEJUR AUTOCRITIC $11.75

EXPOSURE METER WITH CASE

A truly great photoelectric exposure meter for black and white or color. A precision instrument with a wide range of sensitivity. Spiratone-priced, including an Eveready leather case, at less than half the original price.



Latest ASA ratings.

Specify Still or Cine model.

Dejur 5B Exposure Meter, similar to the Autocritic, but with a more limited range. Reg. $15.80, with case $8.98.

SENSATIONAL BARGAINS IN

2¼x2¼ SLIDE BINDERS

Assure lasting protection of your costly 2¼x2¼ slides! Don't risk marring them with scratches, dirt, finger marks: you can never replace them.

SPIRATONE 2¼ GLASSBINDERS. By far the handiest and least expensive reflex binder ever offered, comparable to binders selling at 10c each. Simple and fast to use: Center transparency in glass sandwich, moisten tabs already attached to glass, seal.

50 for $2.00; 100 for $5.25; 200 for $10.00

FAMOUS MAKE DURALUMINUM SLIDEIN METAL BINDERS. These require no pasting, moistening or tape, will not crack or bend. Binder consists of two glasses, extra strong metal frame. Transparencies can be removed easily, interchanged. It's the same binder you have seen in many stores, priced at $1.35 for a box of nine.

36 for $2.70; 72 for $5.00

OTHER 2¼ sq. VALUES

100 2-7/16"x2-7/16" COVERGLASSES (to mount 50 transparencies) $1.95; 300 for $5.40.

DIAMANT MASTER PROJECTOR, for 2¼x2¼ and 2x2 (35mm) slides, 200 watts, coated hairline focusing lens, self-centering slide carrier, reg. $59.50, plus 40"x40" Dalite Model B Screen, reg. $12.00, both (valued at $71.50) for $34.50.

COLO-VUER, for 2¼x2¼ and 2x2 slides, reg. $2.95—$1.89.

Brumberger 2¼x2¼ ELECTRIC VIEWER, accommodates all types of 2¼x2¼ and 2x2 slides, brilliantly magnifies full transparency; allows no-squint vision from comfortable distance—$4.95.

ATTENTION: OWNERS OF

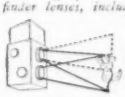
ROLLEI, CIRO, ARGO, UNI, IKO, KODAK REFLEX CAMERAS

GET WHAT YOU SEE

With Spiratone's Parallax-Correcting

CLOSE-UP LENS SET $3.95

consisting of close-up attachments for taking and finder lenses, including parallax-correcting prism.



Only Spiratone offers you this extremely useful set of lenses for all popular reflex cameras at a tiny fraction of the usual cost—unconditionally guaranteed and without any sacrifice in quality. A similar set for the Rolleiflex costs $28.00!

Whether you wish to take portraits with a minimum of background, use your camera for copying, clinical photographs, child photography, shots of the television screen or table-tops—Spiratone's precision ground parallax-correcting close-up lenses do the trick. Every serious reflex camera fan will want them, but we only have a thousand sets available at $3.95. SO HURRY!

Above set of Plus 1 lenses focusses down to 20". Sets of Plus 2 (21 to 13") and Plus 3 (14 to 9") available at $4.95 each.

Lenses described fit standard adapters (filterholders). If you do not have adapters, we can furnish same at $1.00 each.

FILTERKIT $4.95

LENSSHADE AND FOUR FILTERS

For Argus, Kodak 35, Tourist, Kine Exacta, Perfex, Ciroflex, Bolsey, Kodak Reflex and almost every other 35mm, 2¼x2¼, 2¼x3¼ camera.

An unbeatable value: A combination lensshade and filterholder, and four fine optical glass filters, for black and white (red, green, yellow and orange), or three for color (Type A and Photoflood conversion and Haze filters), in a leather pouch, with complete instructions. Either set $4.95. Complete black and white and color kit (shade, seven filters), $8.25.

ANY SIZE

POLAROID FILTER $2.00

A lucky purchase enables us to offer you any size Polaroid Filter, the genuine Pioneer product, listing from $4.00 to $7.75, at $2.00. Sizes available: 21.5mm, 25mm, Series V, Series VI, Series VII.

Polaroid Neutral Filters are ideal for color and black and white; help eliminate reflections; improve detail in sky and water. Order a Polaroid Neutral Filter together with the complete kit!

SPIRATONE

Be sure to allow for shipping costs; overpayment is credited in full. 25% deposit on all C.O.D. orders.

IMPORTED

KINE EXAKTA TELEPHOTO $39.95

coated f:4 90mm

A sensational value, so much superior to what you have seen advertised at almost double our low price. Beautiful chromium finished barrel with focusing mount, settings from 3½ feet to infinity. Needlesharp definition at all openings. A Spiratone Exclusive, sold on a ten-day money back guarantee.

OTHER KINE EXACTA ACCESSORIES AT TYPICAL SPIRATONE PRICES

"SOL" FLASHUNIT with two extension outlets, 5¾" chromium reflector	$ 9.95
PRISMATIC VIEWFINDER, makes Exakta an eye-level focusing camera without parallax (like the new $475.00 Contax S)	47.95
ELGEET 105mm f:4.5 coated telephoto lens	47.55
Hugo Meyer 40mm f:4.5 WIDEANGLE lens	97.75
Zeiss 135mm f:4 TRIOTAR TELEPHOTO lens	69.95
FOCUSING HOOD (facilitates focusing and composition	1.25
FOCUSLIX, produces rangefinder effect, even at smaller openings, is easily installed on groundglass	3.95
Set of three EXTENSION TUBES, with adapters	15.95
Combination LENSSHADE AND FILTERHOLDER (state what lens you have)	2.00
EXACTA GUIDE, a book every Exakta owner must read	1.75
MICROSCOPE ADAPTER SET	11.95
Eveready Leather CARRYING CASE (for f:2.8, f:3.5, f:2.9 models)	5.95

Ask us about any other Kine Exakta accessories you may need—our prices are always right. Write for details on Stereo Photography with the Kine Exakta.

It's Too Good to be True! It's a Typical Spiratone Scoop!

SAVE $29.00 ON "SOL" FLASH FOR ROLLEI, CONTAX, LEICA

Special arrangements with the world-renowned manufacturer of "Sol" flash synchronizer—synonymous with the finest in flash equipment, used by advanced amateur and professional photographers everywhere—enable us to offer for a limited time the popular $56.50 factory-installed outfit at **$27.50**

Allow $1.00 for shipping and insurance.

This unbelievably low price includes factory synchronization by "Sol" unconditionally guaranteed to work at even the highest speeds; a chrome-plated brass battery case with two extension outlets; chromium bracket; and the luxurious 7" Queenolite reflector.

This offer, including Solenoid Installation on double action shutters or internal curtain contact installation on focal plane shutters, is recommended for the Rolleiflex, Rolleicord, Leica, Contax, Bantam, Retina, Linhof, Ciroflex Rapax, Medalist, Super-Ikonta B, BX, Kodak 35, press cameras and others with focal plane or double action (cocking) non-synchronized shutters.

Mail camera by insured parcel post to Spiratone, 32-34 Steinway St., L. I. C. 3, N. Y. Installation takes four working days.

"Sol" Focusing Midget Bulb Reflector $7.50 additional.

"SOL" FLASH $9.95

for synchronized or single-action non-synch shutters

Regular Values up to $34.00

A beautiful two-cell battery case with two extension outlets, a 5¾" chromium reflector, chromium bracket and synch chord (or special synchronizing unit for non-synch shutters)—all for $9.95. Models for Kodak 35, Tourist, Pony, Reflex, Vigitant, Bantam; for Ciroflex B, D, E, F; for Argoflex E, EM; for Kine Exacta; for all other cameras with synchronized Kodak, Graflex, Compur or Prontor shutters. No factory installation required.

THREE UNIT

REFLECTOR OUTFIT $4.29

Two aluminum 10" reflectors for #1 or #2 bulbs, one bullet reflector for spot effects, all three complete with swivel joint, switch, socket, clamp and cord—at a fraction of their usual cost.

Two #2, one #1 photoflood bulbs 96c extra.

49 WEST 27th STREET

NEW YORK 1, NEW YORK

People who know
Picture-taking
and picture-making—
PREFER THE Stereo Realist

THE CAMERA THAT
PUTS 3RD DIMENSION ON FILM

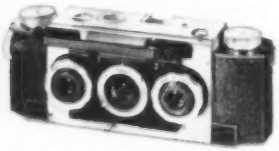
Cecil B. de Mille *Famous Producer-Director of Paramount's Technicolor "Samson and Delilah"*

Says: "My Stereo-REALIST takes what I've waited a life-time to see — the perfect picture!"

When a man of Cecil B. DeMille's experience talks about pictures — their color and quality — it's definitely a voice of authority. No words we could frame can better express the realism, the sheer beauty — the life-like perfection of Stereo REALIST pictures.

To know what Mr. DeMille means when he says the "perfect picture" — you must see Stereo REALIST pictures. See their glorious color — as natural as sunlight. See their *real* dimension — their true depth and perspective — the thing that makes Stereo-REALIST pictures vivid — living — perfect!

You'll find Stereo-REALIST Cameras and pictures at better camera dealers everywhere. Stop in and see them—or if you like, drop us a post card—we'll send the name and address of our nearest dealer to you. DAVID WHITE CO., 364 West Court Street, Milwaukee 3, Wisconsin.



Priced according to Fair Trade Practices. Camera and Viewer $182.25 (Tax Inc.)

STEREO Realist

THE CAMERA THAT SEES THE SAME AS YOU

CANDID SHOTS

by the Editor

ONCE again the long established and widely followed Directory of Photographic Equipment has been revised and brought up to date; it comes to you in this special May issue. In it you will find illustrated and described many new items of interest—cameras, projectors, exposure meters, flash units, and other major picture-taking accessories. Also included are fact-filled charts which provide information on still and movie films, lenses, printing papers, and other items of interest to the camera fan. An index listing the full contents of the Directory will be found on page 89.

For many years POPULAR PHOTOGRAPHY'S Directory has been the reference "bible" for amateurs, professionals, and dealers everywhere. It provides ready information on equipment and supplies—specifications, characteristics, prices, and so on. You will find it useful on many occasions during the coming months, so keep it handy. Preparation of this up-to-date Directory has been a huge undertaking, and we are grateful to the manufacturers and distributors who co-operated by supplying us with the information from which the listings were prepared.

ENTRIES for the big 1950 Picture Contest are beginning to roll in from all parts of the country. Although the competition is just getting under way, it's not too early to be thinking about your own participation in this important event.

First of all, read the rules of the Contest so you will be familiar with the conditions of entry. You'll find them elsewhere in this issue, along with the list of prizes. Next, go through your collection of black-and-white prints and color shots, keeping an eye peeled for the most interesting and unusual pictures you've made. These are the ones the judges will want to see, so prepare the necessary entry forms and send them along with your photographs to the Contest Editor. Who knows? One of your pictures may be a top winner this year!

A NUMBER of camera clubs throughout the country offer short-term courses in photography, usually in the form of a series of spring and fall lectures. Some of the courses are planned for the amateur who has a good understanding of basic fundamentals, and lectures cover such subjects as composition, local control in printing, toning, and so on. We were pleased to see the announcement of a plan which has been adopted by the Cleveland Photographic Society—one that should attract many newcomers to the hobby and stimulate a renewed interest on the part of some who may have stowed their cameras on the shelf. The club states that the program will offer, "on a continuous basis during ten months of the year, a course of six lessons in the operation and intelligent use of the camera. It is intended particularly for the benefit of those who are buying a camera for the first time and who wish to get the most out of their investment. But it should appeal equally to those who already have cameras but have never really learned how to get good pictures with their equipment." Students may enroll at any time and continue for the six weeks. Camera fans in the Cleveland area are fortunate in having this opportunity to learn photo fundamentals from fellow-hobbyists. We hope that clubs in other localities will adopt the idea.

SOME years ago, many of you will recall, fine pictures by Torkel Korling appeared in POPULAR PHOTOGRAPHY with fair regularity. This Chicago professional photographed many subjects, but was best known for his outstanding pictures of babies and animals. Of recent years Korling has invaded the industrial field. A few months ago we saw a batch of his latest pictures, and after looking at the first dozen in the stack we knew you would want to see them, too. Korling's photographs have a "new look," for this flawless technician and creative cameraman has proved himself the wizard of the wide-angle lens. Rus Arnold was assigned to interview Korling and get the story behind these pictures. It is one you will want to read, for it's packed with information you can use. Korling's striking pictures and Arnold's fine article are among the features in this issue, and for a bit of humor, be sure to see the photo parody by Amateur Bernard Davis. It starts on page 72.

THE other evening we emptied the contents of a couple of gadget bags and looked over the cameras and accessories. After dusting the equipment, polishing lenses and filters, and loading the cameras, the bags were repacked and hung in the hall closet. Now we're all set to take off at a moment's notice for an impromptu hike to the lake near home, or whatever other picture-taking occasion may arise. Once we got caught on a field trip without a lens shade and learned the hard way that it pays to make an occasional check-up. Take a tip.

—*Frank Fenner, Jr.*

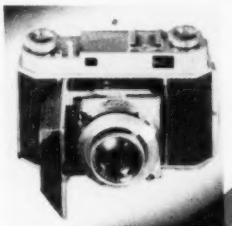
"I want a camera to fit this lens."

OLDEN 1265 B'WAY N.Y. 1, N.Y.

NEVER BEFORE

35MM

Argus A2, 4.5 ctd.	$ 18.50	.....
Argus 21 "Markfinder" F:3.5..		29.50
Argus C III, F:3.5, Flash	52.95	28.00
Bolsey "B," F:3.2, ctd, RF	55.90	36.00
Bolsey B2, F:3.2 ctd. RF	66.90	47.00
Bolsey "C" Reflex, R.F.	99.50	64.00
Clarus, Wall., F:2.8, ctd.	115.25	58.00
Contaflex, Sonnar F:2		186.00



★Retina IIB, Synchro f:2 Xenon ctd. lens built-in flash—LIKE NEW		$119.00
Kodak Ektra F:1.9, case		358.00
Kine Exakta II Biotar f:2	176.00	149.00
Kine Exakta I Tess. F:3.5	98.00	72.00
Kine Exakta II Tess. F:3.5	118.00	94.00
Zeiss 13.5 CM Tess. F:4.5	84.00	44.50
Kodak 35, RF F:3.5	84.75	32.00
Mercury II, F:2	82.50	33.00
Retina IA, F:3.5	72.50	33.50
Stereo Realist	162.50	125.00
Leica D, Elmar F:3.5		88.00
Leica G, Summar F:2		148.00
Leica III G, Elmar F:3.5	280.00	143.00
Leica III G, Summitar F:2, ctd.	385.00	215.00
35mm Elmar, F:3.5, W.A.	82.00	48.00
35mm Summicron F:3.5 ctd. W.A.	185.00	.....
50mm Summar, F:2, ctd.	120.00	94.00
50mm Summarit F:1.5	180.00	.....
73mm Telyt, F:1.9	218.00	94.00
85mm Hektor F:1.9	472.00	308.00
90mm Elmar F:4, ctd.	155.40	84.00
90mm Tele-Elmar F:4.5	218.00	148.00
135mm Telyt, F:4.5	236.00	89.00
200mm Telyt, F:4.5 Autofocus	392.00	278.00
Leitz Flash Gun F. All Models	63.00	49.00
E. R. Case F. Leica w. Flash	24.00	19.50
Leitz Imarect Finder	77.00	37.00
Focaslide Copying Attach.	45.85	33.00
Nooky for all lenses	66.00	43.50
Contax "S" Biotar, F:2 ctd.	475.00	.....
Contax II Sonnar F:2		148.00
Contax IIA, Sonnar F:2	385.00	.....
Contax III, Sonnar F:1.5		234.00
28mm Tessar, F:8, W.A.	145.00	75.00
35mm Biogon, F:2.8, W.A.	234.00	118.00
50mm Sonnar, F:1.5 T. ctd.	256.67	92.00
85mm Sonnar, F:2	291.67	162.00
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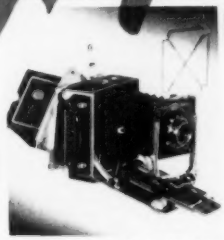

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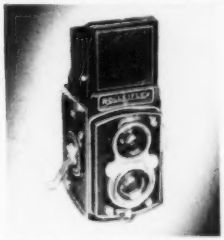

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Fritz Henle—
WHAT MAKES HIM CLICK

Photography in its all-embracing sense is his love; here is the secret of this versatile master's formula for success

By JACQUELYN JUDGE

THERE ARE many photographers today who, by virtue of their own preference or simply due to the nature of their assignments, stick to one photo category and build their reputations therein. Exceedingly more rare is the photographer with the capability, adaptability, enthusiasm, and the desire to shoot *any* subject matter that comes before his camera—and who has the rare ability to do *all* of them well.

One of the outstanding examples of this latter category is Fritz Henle, whose technical camera ability can be taken for granted . . . and whose fresh creative approach to an infinite variety of photographic subjects accounts for his extraordinary success.

For instance, Henle seldom is referred to as a fashion photographer, or an industrial, travel, personality, portrait or child photographer—because he is *all* of these—and more, and he handles black-and-white and color with equal ease.

His ability to move from one subject to another with sureness and facility was apparent from his earliest professional years. The charming photograph which shows a reflection of St. Peter's in a rain puddle was taken in Rome in 1934 when he was gathering material for a book of scenic views later published in Europe. Up to this time, Henle's professional career had been limited to photographs of art and architectural wonders for Professor Clarence Kennedy of Smith College. Yet the young photographer was able to turn instantly from a job of record photography to interpretive visualization. For surely the reflection of St. Peter's in a puddle of water is not a record of the details of that architectural wonder. It is a highly personalized little poem about the dignified beauty of Rome

Available room light gives a naturalness to the semi-silhouetted figure of George Braque, a contemporary modern painter, at work in his Paris studio.

Color photography is but one facet of Henle's ability. The fashion portrait of the bride, above, was made in his studio; air from a fan created the soft motion of the veil. An interesting and dramatic industrial subject, presenting another phase of his skill, is found in the picture, right, which carries a symbolic quality of the importance of man over machinery. Here he posed a tiny helmeted figure among the silvery pipes and black furnaces of a Cities Service oil refinery.

A young Parisienne (left) gazing through a city window; a fashion model (right) displaying a resort costume at St. Thomas, Virgin Islands; and (below) his wife Atti and son Jan enjoying sea and sun at Nantucket, R. I.—these are typical marks of Henle's genius.

on a morning following a rain.

In all creative fields, boredom is a prime occupational hazard. Photography is no exception. This is one reason why so many fine talents rise to the top, are envied, copied, and then one day: "Another picture by X? He's *always* the same." X has been repeating. He's been repeating his lighting, his composition, his subject matter. And the formula—dull to him months ago—finally has become dull to his public.

Years ago Fritz Henle briefly held a staff magazine job. Hours were good, paycheck and expense accounts generous. It was an ideal job with one flaw—boredom. The editors had put a label on him. He always was given *one* type of story, to be photographed in *one* style. The result was satisfactory to the editors, but not to him. He knew he was bored. He knew that the creative spark was not being struck. And he knew these things because his photographs were telling him so.

He did a very simple thing. He resigned. And he began to free lance with the determination that he would keep his camera moving constantly to whatever fields his interests and inspirations led him. Thus he found a solution to a critical individual problem. For there are photographers who remain fresh though they specialize in one subject, one technique. Henle found out early in the game that he was not one of these few.

Today the mainsprings of his inspiration are many and supplementary to each other. He may repeat the natural pastels of a Virgin Islands travel scene in a studio color setup. In 1934 he showed you a pigeon's-eye view of St. Peter's; fifteen years later he offers a worm's-eye view of a new American oil refinery. To him photography is one field—and the separate categories provide a file clerk's nomenclature, nothing more.

Henle is not a slave to fads. Just a few years ago the "New Look" in magazine photography was ushered in by the Cartier-Bresson exhibition at the Museum of Mod-

Interpretive visualization—one of Henle's strong points—is evident in this shot of the reflection of the dome of St. Peter's in Rome in a rain puddle. It was made 18 years ago.

Night in the Museum of Modern Art is dramatized by placement of the cleaning woman (who loves to work among art objects) and use of flash—one at left to cast strong night-simulating shadows, and another, diffused to add roundness and to soften dark areas.

Henle's fashion shots have a fascinating, lyric quality. This one, showing Kathryn Cassidy modeling a bathing suit in the Virgin Islands, has a delicately feminine appeal.

ern Art. Few photographers resisted it. They dusted off the old Leica or Contax which had been moldering in the attic while photography was undergoing its flash-happy fad—and set out to get what the editors demanded.

But Henle didn't. He didn't have to. He stuck to the same camera he'd fallen in love with during his student days in Munich, the Rolleiflex. And since his style was his own, he couldn't change—and wouldn't. Besides, even his flash photographs from those years meet a test many of his competitors would fail—they don't look dated. They are as fresh as last week's color film. Witness: the night club portrait of Lena Horne, taken in 1943. Henle used but one flash off camera to achieve the somewhat harsh stage effect he sought.

In contrast, last year in a Parisian night club, he photographed another singer, Jaques Douay. Lighting: what was in the room. Camera: the same Rolleiflex he'd used six years before for Lena Horne. Exposure: 1/5 sec., hand-held. Desired mood: soft, nostalgic.

In other words, Henle never uses technical tricks for their own sake. Whatever mechanical aptitude he has developed, he uses in terms of his subject matter. Not vice versa.

Consider, for instance, the photograph of George Braque, shown painting in his Paris studio. Not only does the viewer note the interesting semi-silhouette effect, caused by the photographer shooting against the light of the window, but his interest is caught by

Diffused lighting, high-key background, and a beautiful girl modeling a sea-breeze-blown Trigere gown combine to make one of Henle's most successful fashion shots.

A continuing fresh approach keeps Henle's pictures from being dated. This portrait of the sepia vocalist Lena Horne was made in 1935, using one flash off the camera for a stage effect.

Combining the old and the new in portraying Mexican culture and costumes, Henle shows a modern native girl in ancestral robes against a background of ancient ruins.

Soft lighting of a Paris night club illuminates Singer Jacques Douay. Compare this with the flash picture of Lena Horne, opposite

a new fact which the photograph reports to him—that Braque paints at times in a squatting position.

Such an approach is insurance for Henle. Long after today's fad-setters have gone searching for a new gimmick, Henle will still be quietly taking his satisfying photographs.

Henle doesn't feel any great need for mental readjustment when he moves from portraits to fashion. His approach to both fields is the same. To him models are neither glorified clothes racks nor abstract elements in a design. They are women—usually quite beautiful in face and figure. And the best of them have highly developed individual personalities.

Add to this the fact that models possess two important elements of creative photography — beautiful forms and graceful movement—then you'll understand why Henle believes fashion offers him the means for the most lyric and (*Continued on page* 220)

BOREDOM: Model Jean Pearson reflects the feelings of one who finds no interest in the world around her—a mood instilled by Joe deCasseres, who made these fine pictures.

PICTURES of people don't have to be formal portraits or routine snapshots. If you are among the many amateurs who are accustomed to working for conventional photographs, you will get a new thrill out of portraying your subjects in dramatic mood pictures. They may not be as acceptable to family and friends, but they will gain a broader appeal that is important in contests and exhibitions—and you will enjoy making them, too.

Taking mood pictures calls for more than asking the subject to "watch the birdie." You must induce the mood you want. How it is done was brought home very forcefully to me by Joe deCasseres, former assistant to Eliot Elisofon. One day I dropped in and found Joe taking a breather between pictures. Eventually, as it always seems to do, the conversation got around to women and photography. Joe deCasseres savored the subject for a moment and then declared, "Women are good subjects and I enjoy photographing them."

"Joe," I said, "you surprise me.

MOOD TELLS THE STORY

By WALTER IAN FISCHMAN

Illustrations by Joe deCasseres

Have your subject register emotion if you want to make dramatic or unusual pictures that will have a wide appeal

FLIRTATION: To portray an attractive girl attempting to captivate a new friend, the photographer prompted this pose.

All day up here you shoot gorgeous gals for fashion magazines and big ad agencies. I should think you'd get just a little bit weary of beautiful women."

"I'm not talking about women who are just beautiful—I mean women who have expressive faces—women who can portray emotion. Mood photography is where the fun of picture taking really comes in, and a good director can take almost any model and turn out interesting work."

"Pardon me for butting in, Joe," I said, "but you said a good director. No quibbling intended, but we are speaking of still photography and you obviously mean a good *photographer*."

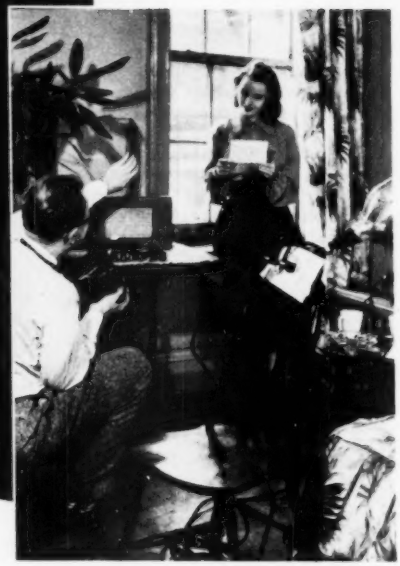
"No, Walt, I'm assuming that the man behind the camera already is a good photographer—that he can handle his camera and lights, and knows what's what with exposure-development relationship. Beyond that, for mood pictures he needs another ability. He must be able to direct moods.

"Look at it this way. Every photograph is, to some extent, a mood picture. If it's of a house or

DESPAIR: By making use of the natural light against a stucco wall, and creating a situation of hopelessness for Jean, deCasseres has captured a despondent mood.

HAPPINESS: "Everything was perfect at the dance last night. Now it's Sunday morning and you can relax." This suggestion to the model produced a reaction that tells the story.

SUSPICION: A grim scene gains realism through Jean Pearson's distrustful glance.



LONELINESS: The trick of creating mood is to get the pose and camera adjustments set first and then induce the emotion. At right, deCasseres directs the model; he tells her, "You're all alone; your fiance is away; no one has visited; just the postman—."

a landscape the mood is achieved with camera position plus maybe juggling of key through development, and the printing. But when you have a person as a subject, governing the mood becomes a lot more difficult. It is up to the photographer first to understand perfectly the mood he wants to set. Then he must convey it to the model so that she understands it and feels it. Then and only then will it show in the finished photograph."

"I challenge that, Joe. If a model is worth her salt, she can give you any mood you want on the spot."

"Sure she can, but what you'll get is her stock Fear Expression No. 8, or Happiness No. 10. A photographer who has the ability to direct can take a non-professional model and instill in her almost any mood he wants. An amateur, by spending a little more time, directing the model a little bit more, should be able to get equal results with his favorite subjects. And what's more, he can have a lot of fun being a photographer-director. I assume, of

FEAR: Jean assumes a frightened look when told she is trying to hide from a man who is following her. The dark cellar entrance provides an appropriate setting

ANGER: An over-the-shoulder shot of a vexed woman was taken with light coming from house next to the model's. Fischman reveals the dialogue used by Joe deCasseres to induce an inflamed look in Jean's eyes.

LOVE: Switching the mood lighting to higher key, deCasseres poses his subject again and relates his story of a woman who loves and is loved in return.

course, that he can handle the technical end of photography."

"Ah hah!," said I, "you admit that you need your studio setup to handle the job. Get you away from your 8x10 camera and 5,000-watt lights and you'd be stuck."

"Not so fast, Fischman—my hasty friend. I mean that the photographer should be able to get results whatever the photographic setup is—and that includes natural light and a hand camera."

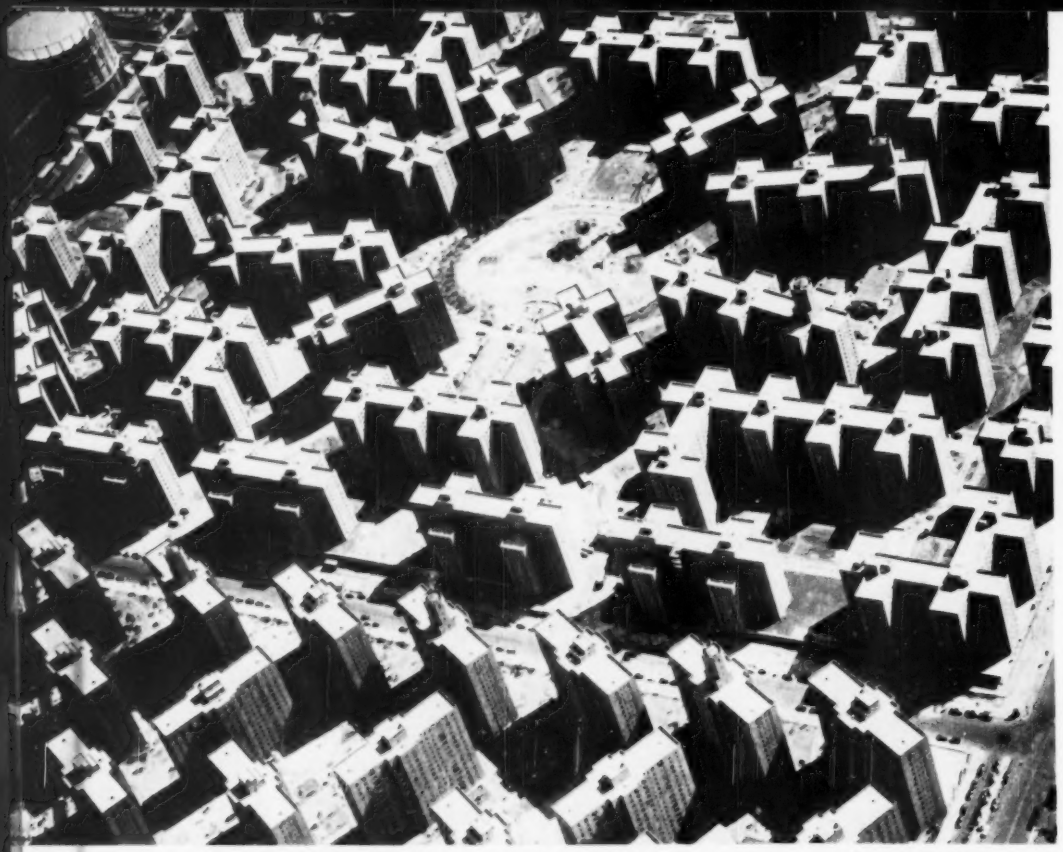
"Let me get this straight. You mean you can take a small hand camera and very simple equipment, and by simply choosing your situations, turn out a decent mood shot?"

"I'll go you one better," deCasseres said, "I can turn out a whole series of mood shots and I'm open for a bet on that."

"Put up your money, Joe; you've got a bet."

Joe sat drumming softly on the top of the desk. "You know who I'd like to use as a model for the series? A young actress, Jean Pearson, who's done some little theater work and had a couple

(*Continued on page* 222)



Pattern of Stuyvesant Town development (New York City) is accented by the circular park area. Photographer Statile had his Cub pilot circle several times until he got precisely the angle he knew would reveal the geometrical forms of the buildings.

He Spots 'em from the Air!

By HARVEY V. FONDILLER

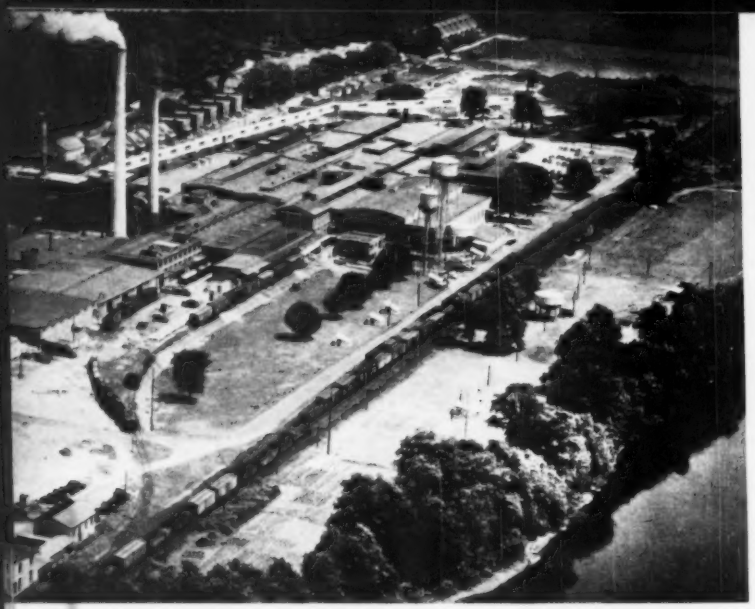
D. Richard Statile adds pictorial punch to his technically excellent aerial views by emphasizing a center of interest

AERIAL photography is rapidly catching up with our jet-propelled age. Until recent years, any sharp, well-exposed air view was considered acceptable. Good technique, however, is merely a means of achieving pictorial excellence in the photographs of D. Richard Statile. By emphasizing a center of interest or accenting a pattern, Statile creates aerial pictures of salon quality.

In photographing midtown New York, Statile emphasized the RCA Building in Radio City—a giant among giants—to express the soaring quality of twentieth century architecture. The regular pattern of the structure's vertical lines is an eye-catching focal point.

The curve of an express highway becomes the unifying factor in an aerial landscape of New Jersey. White smoke from a chimney is the staccato contrast which adds punch to a shot of a Pennsylvania paper mill. Two ocean liners are revealed in a new perspective by Statile's perceptive lens. A highlighted building serves as a central point of interest in the casual pattern created by a railroad's marshalling

Two ocean liners take on a toy boat look from 1,500 feet. Statile uses a 5x7 aerial camera with 15-inch lens but has had equally dramatic results with a 4x5 Graphic and 5¼-inch lens.



A Pennsylvania paper mill is compressed into a unit in this shot made from 800 feet. White smoke contrast was pre-arranged. For air views, Statile chooses bright days, uses a light yellow filter and Super-XX film. He made this scene at 1/400 sec. at f/5.6.

Highlighted building in a railroad's marshalling yards in New Jersey serves as a focal point for the curving tracks. Statile rents planes and coaches pilots on how he wants them to respond to his hand signals.

Tall lines of Radio City's RCA building emphasize this view of Midtown New York. At times similar shots can be made through airliner windows if glass is clean and the camera is kept free of plane's vibration. ←

yard. While flying over Stuyvesant Town housing development in downtown New York, Statile shot against the light to let shadows emphasize the geometrical shapes of the buildings. An oval park area provides tonal and linear counterpoint to the jagged lines of the structures surrounding it.

All of Statile's aerial shooting in the New York City area is done from a light plane, a Piper Cub that he rents from a little airport near the city. He makes no particular point of going up with the same pilot each time. He simply coaches his "chauffeur for the day" on how to respond to his hand signals—to gain altitude, glide, turn, or bank the plane—and it all works out very smoothly. In explaining the type of picture he wants to get, Statile often draws a sketch for the pilot to show how camera angle, (*Continued on page* 86)

Huge stockroom was photographed by Korling with a wide-angle lens and natural room lighting. Three workmen were posed in positions that suggested action but could be "held" during a 20-second exposure. Note the over-all sharpness in this picture made for *Fortune* magazine.

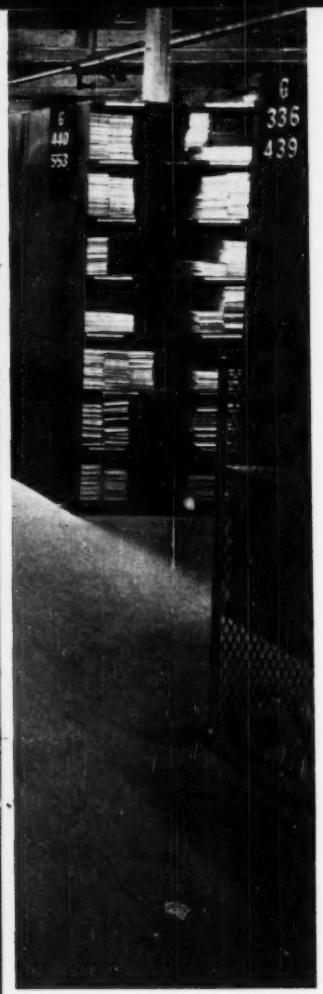
WHY THE WIDE-

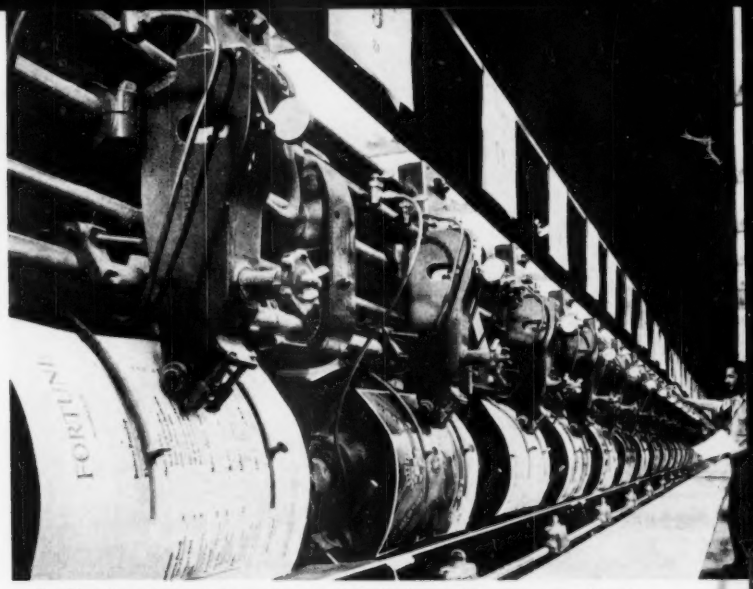
By RUS ARNOLD, APSA

This lens does more than its name implies. Torkel Korling puts it to work in creating his dramatic photographs with a "new look"

MOST camera owners think of a wide-angle lens as something you change to when the normal lens will not take in all the area you want—a sort of your-back-to-the-wall kind of lens. True enough; when a room is not long enough to enable the photographer to shoot as much of the interior as he would like, he can easily overcome this difficulty by replacing his normal lens with a wide-angle lens. He can also resort to the same trick outdoors when it is desirable to cover an area wider than can be recorded with his normal lens.

These uses of the wide-angle lens, however, by no means exhaust its possibilities. It has characteristics which enable the capable cameraman to produce





Combined long-shot and close-up in one picture of a huge printing press was achieved by the use of a wide-angle lens and choice of dramatic viewpoint. A small spotlight to the left was the only illumination employed other than the normal room lighting.

ANGLE

unusual and striking pictures if he understands his equipment and how to make it serve him. Such a photographer is Torkel Korling, who owns not one but 12 wide-angle lenses. Yet we don't want you to think that the only reason Korling gets dynamic in-

Large group in crowded space was made interesting by clever arrangement plus the lens Korling used. A normal lens would not have produced sharpness from books on the far wall to figures in extreme foreground.

dustrial pictures is that he has these 12 wide-angle lenses. He gets the kind of pictures he gets because he knows the kind of pictures he wants. Seeing a picture in your mind is the prime requisite, he says. Only *after* you know what will make an effective photograph do you have to consider which camera and what lens to use.

When Korling found himself paying more attention to industrial work and less to child portraiture, he felt dissatisfied with conventional results. Perhaps he envied the painter's ability to draw things within one frame from several different viewpoints—the things on the table as seen from high up, the girl sitting at the table as seen from eye-level. The camera couldn't do that—it had to be at some one place.

Two-directional viewpoint gained by use of wide-angle lens tells how a thing is made and what it looks like. Picture above shows woman sewing on parachute cloth with a multiple-stitch machine.

Same technique used in making this picture of an artist enabled Korling to show contents of open drawer. Exposure was based on illuminated viewer, with which supplementary light was balanced.

Of course some photographers have tried solving that problem with trickery—montages, double exposures, and so on. But Korling is a realist, and his clients are keenly critical advertising and merchandising experts. They know that for them the value of the camera is its conviction, its ability to make a thing seem really to have happened to real people at a definite place at a certain time.

So Korling worked on, and finally learned that while the lens has to be at only one spot, that

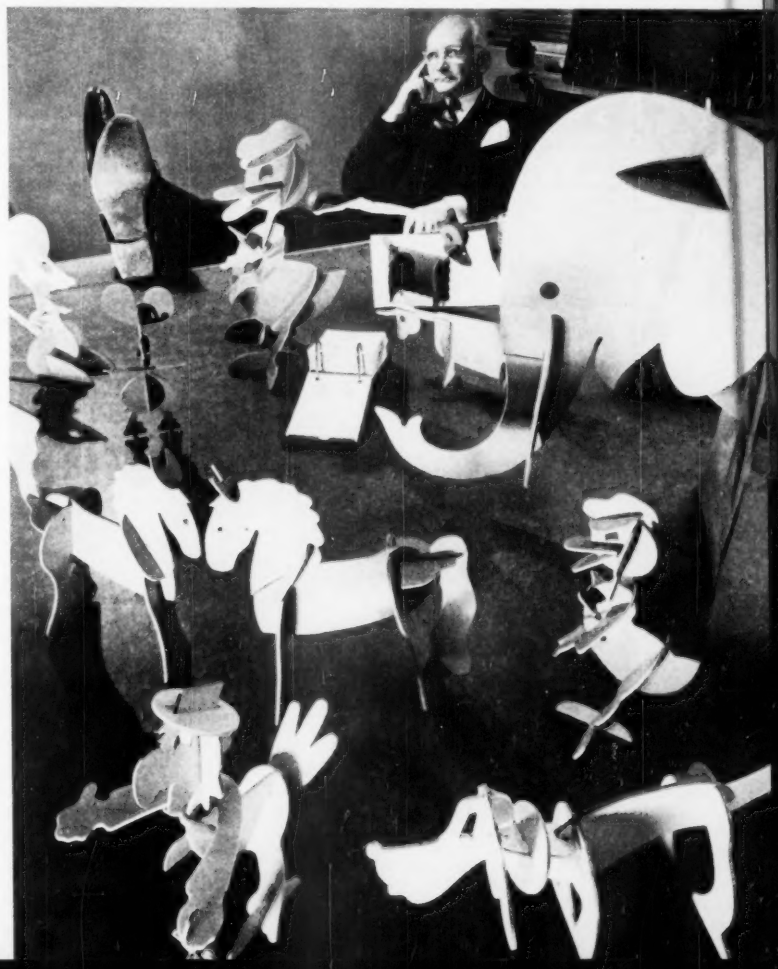
spot can be at different levels—in relation to different parts of the picture. It can be above the table at the subject's eye level and yet look almost straight down on what's on the table. Yes, the lens can be so placed that it has more than one viewpoint in relation to the contents of the picture. But only one type of lens can be used in such a manner and produce a crisp negative with over-all sharpness. That is the wide-angle lens. So Korling gradually acquired his 12 wide-angle lenses, put most of them to work, and kept a few as spares. He put the lenses to work making pictures with two or more viewpoints. And he put the different viewpoints to work dramatizing his subject matter, telling two or more stories in the one picture, showing several stages of a process or perhaps showing both the process and the product, bringing a thing around from the middle distance where it is being made in a huge machine —bringing it right up under the camera's nose, large and detailed, so you can study it and learn what it looks like.

Many photographers think of a wide-angle lens as the exclusive tool of the architectural or banquet photographer. And that makes them think of the wide-angle lens as one that produces unavoidable distortion. Mention distortion to Korling and he laughs. One man's distortion, he seems to think, is another man's artistry. "We call an effect distortion," he explains, "when it doesn't look the way we expect it to and are not pleased with it. But the same effect, if used to make a pleasing picture, is no longer distortion."

We all learned that lesson years ago, when the miniature camera came along and people used it to take pictures of skyscrapers from low angles. The tilting and the converging of lines which the architectural photographer had struggled against for years as harmful distortion, suddenly became a dramatic tool in the hands of the creative camera artist. We decided that if vertical lines in a picture converge a little, it looks like a mistake and is called distortion. If they converge so much that it seems deliberate, that becomes acceptable . . . or interesting . . . or dramatic, depending on how (*Continued on page* 229)

Difference between results Korling gets with a lens of normal focal length, left, and a wide-angle lens, right, is revealed in these pictures and discussed in the text.

Refreshing variation of an old theme—a man at his desk—is achieved in an amusing shot of the artist who created the ingenious cardboard cut-out toys known as Slotties.

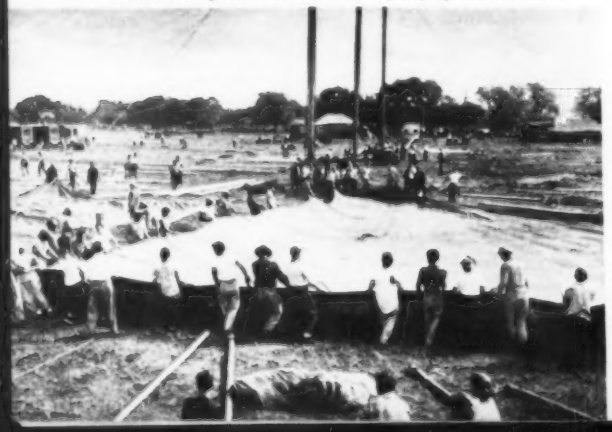


Lining up the acts behind the big tent in order of their appearance calls for a lot of hard work and careful timing by attendants. A really complete pictorial coverage of the circus requires a few shots of this kind. Notice the effective camera angle the author used here.

HERE COMES THE CIRCUS

Get there early and don't spare the film. The onlookers will afford you as many good shots as the big show and the troupers

Home-town youths earn free tickets by helping with the canvas



By WILLIAM E. LUMMUS

Photographs by the Author

PROBABLY one of the most eventful occasions in the lives of all American kids is the day when the circus comes to town. And if you happen to be a photographer, amateur or professional, who likes to shoot human-interest pictures, it should be a real event in your life, too; for in and around the Big Top enough unposed human-interest shots are available to make a photographer wish he had a dozen cameras working simultaneously.

By daybreak on circus day, eager boys, large and small, have gathered to assist in stretching out the

Accuracy of stake-drivers is worth a picture. Slight amount of blur suggests feeling of motion. Exposure here was 1/50 sec., f/5.6.

Avoid use of flash in capturing natural-looking human-interest pictures. This circus workman is relaxing after the Big Top is up.

Doing the laundry between appearances is part of circus life, and is among the possible subjects. Seated girl lends atmosphere.

huge canvas or watering the elephants or any of the other many odd jobs for which they receive free tickets to the big show. The eager expressions on the youngsters' faces, before and after they go to work, are fine new material for your camera. And I have found the kids to be so eager and so interested in their jobs that it is possible to work among them, sometimes even getting close-ups, and go practically unnoticed.

Your first move is to get there early with plenty of film, for as soon as the circus trucks and wagons start rolling onto the circus grounds the bumper crop of wonderful picture opportunities starts sprouting. From then on until late that night when the last performance is over, worth-while shots are literally everywhere you look. And remember, if you should get there so early that the light is still weak, don't let that stop you from attempting a shot. Open up the lens aperture and shoot slowly, bracing your camera against something if possible. Very often, even though the resulting pictures may not be as sharp as they could be, they will have a lot of circus "atmosphere." Sometimes the lack of sharpness or the blurred effect caused by subject motion can even add to the candid appeal of one of these pictures.

As the Big Top goes up, production shots are there for the taking, shots of men and elephants combining their efforts to make ready the greatest collapsible show-house ever conceived. Nowadays, it is true, pile drivers sink most of the larger stakes into the ground to provide the "foundation" for the mammoth tent, but for the hundreds of other stakes which have to be driven into the earth there still can be seen "stake crews" of four and five muscular men. In each crew, all of the specialists wield their heavy sledges on the same stake with the accuracy and regularity of a precision machine. As they work, they laugh and talk among themselves, or chant songs which are meaningless except to them. Such scenes have convinced me that circus people have an unconquerable good spirit, with seemingly no care in the world except that the show must go on! Is it any wonder that you and I and all photographically-minded people

Co-operation is a watchword among circus people. Here a performer aids an electrician in completing his outdoor shampoo.

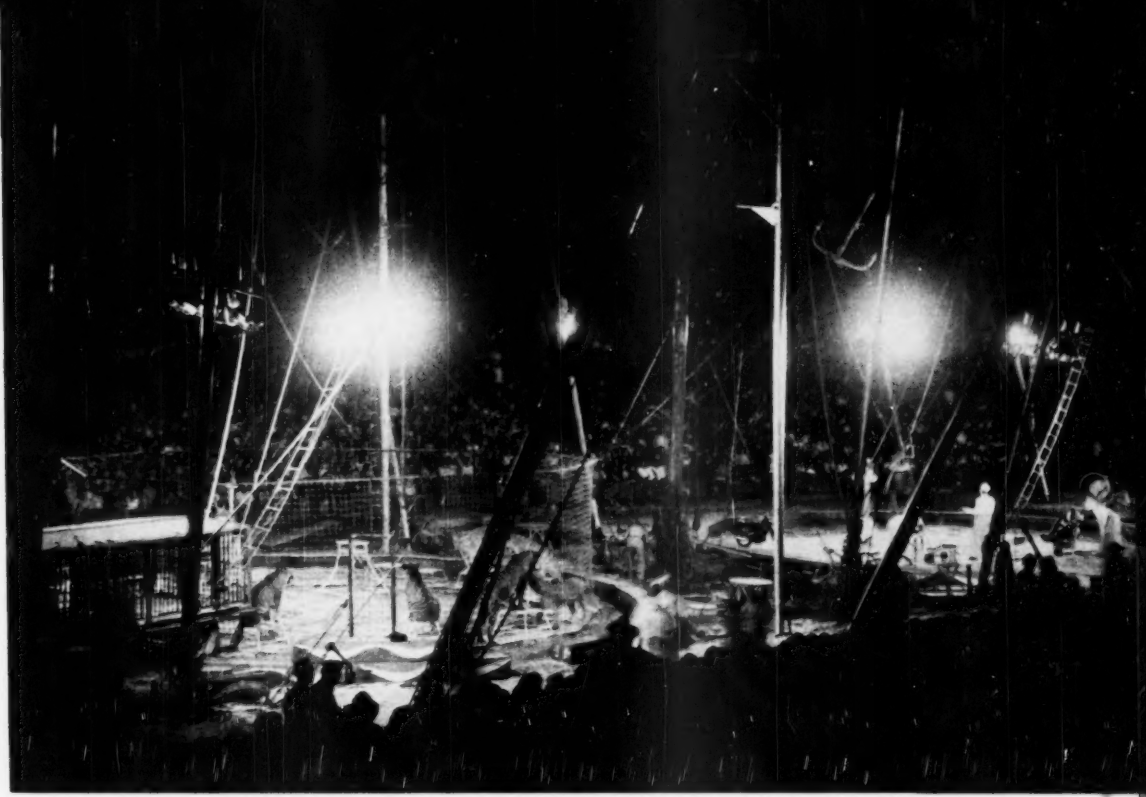
Headline acts usually are lighted well enough to permit a good exposure. The author shot this balancing feat at 1/10 sec.

find such subjects to hold unusual interest for us?

The very fact that the place is teeming with people and activity will aid you in getting unposed, natural pictures, because this is circus day and people are much too busy watching or helping the circus "go up" to bother about a photographer at work among them. Keep out of the way and out of danger—this is a must—and you won't be bothered.

After the giant tent is standing on its own legs and waving its flags proudly in the sky, workmen may be seen dozing peacefully under wagons or under tent-flaps here and there. Good human-interest subjects? You bet—particularly if you can manage to include in the picture area some bit of scenery or equipment which definitely marks the location as being somewhere around the big show. While all this is going on, kids who don't happen to be working or who have completed their chores can be seen standing around watching, intensely interested in everything about them. Some of them may be absent-mindedly eating

Animals not only provide you with good subject material themselves, but they also bring out wonderful expressions on the kids' faces; interesting contrast is afforded by the complete boredom of the lions, left, and the enthusiasm shown by the youthful spectators, right.



Spectacular panorama of the "greatest show on earth" in full swing! The maze of ropes, poles, and platforms—which must all be secured and ready when needed—tells a graphic story of the precision and effort which make the circus tick. The exposure was 1/10 sec at f/5.6.

cotton candy or peanuts—or they may be ganging up in front of one of the animal trucks, getting a kick out of the chimpanzees' antics or enjoying the big cats' bored expressions. Whatever the kids are doing, they're wonderful subjects every minute.

In making grab shots of subjects such as the sleeping roustabouts or the kids, I strongly advise you against using flash. If you do you risk offending or disturbing tired workmen; and although the kids are very much absorbed in what goes on around them, shooting flash certainly will direct their attention to you and they'll either "freeze" or start watching you work, thereby eliminating themselves completely as unposed subjects. In addition to this, it's my opinion that most photographers overdo the use of flash and spoil the natural light existing on many a good set by popping a flash from the camera. In this way they call to the attention of those who view their prints that they're looking at artificially-lighted pictures and not at natural scenes as they originally existed.

Of course, I do not intend to say that you should never use flash around the circus, either. There will be times when you want to fill in the shadows in a backlighted or sidelighted scene, as I did in the case of the accompanying picture of the bareback rider doing her mending. But it should be noted that in this case the subject knew I was taking her picture and had graciously consented to pose for me. In many, if not in most, cases, the pictorial interest of a circus picture is stronger when the existing light is used unaided. And the possible nuisance value of a photographer is lessened considerably when he works unobtrusively without letting flashbulbs go off in the eyes of unsuspecting people and animals.

Around in back of the Big Top before the show goes on there exists another veritable photographer's paradise. I use the term because, to me at least, the ways in which these grand people do their everyday household chores on tour is a powerful human-interest story indeed. Women and girls can be seen putting out their family wash or doing such sewing and mending as needs to be done. Circus children can be found sitting around in the sunshine doing their homework so they won't get behind in their lessons. Clotheslines are not difficult for circus folk to find—they hang their laundry on the many ropes which lead from the tent's edge to stakes in the ground. Large galvanized buckets are used not only for laundering but for shampooing, shaving, and—in the case of some of the midgets—for bathing.

Amid all the hustle and bustle of getting everything in readiness for the show to go on, there exists an unmistakable spirit of friendliness and co-operation—a spirit which makes it possible to present this, the greatest of all shows, in a different town every day. Circus folk not only don't mind being photographed—they seem to enjoy it! As a matter of courtesy to such likable people, I suggest that you ask their permission before poking a camera into their faces or otherwise invading their privacy. Furthermore, since they are show people, they have the ability to appear in a photograph without being camera-conscious and looking

Passing the peanuts to a showgirl is Clown Joe Ward, wealthy Texan who occasionally joins the circus just because he loves it.

Bareback rider Kathryn Kramer does her mending after hanging out the wash. One flashbulb was used to fill in the shadows here.

posed. Sometimes, neglecting to ask their permission before you shoot will result in being refused the privilege of making some very interesting back-of-the-scenes photographs. Always remember that it's easy enough to get access to the "backlots" for making your photographs—but should you take advantage of these people's good nature and become overbearing it's still easier to get thrown out.

My suggestion is that first you go to the ringmaster or one of the other top circus authorities, and tell him that you're doing a picture story on the circus and would like to get a few shots of the activity back of the scenes in order to make the job complete. If you explain it to him and impress him with the fact that you won't get in anyone's way or upset the routine in any manner which might delay a performer's entrance, he usually will give you permission to do all the shooting you wish. And you'll have his word to back you up as you go along.

When the show goes on, there is sufficient illumination under the Big Top for you to make shots with no additional light whatsoever, and you don't have to shop around looking for possibilities, either. The lighting, of course, will vary as the program progresses. When you want to shoot a feature act, wait until the house lights are dimmed and the star attraction is spotlighted in one of the main rings. When you wish to shoot something of a more general nature or capture the expression of a youngster near you, wait for a period when the lights are all on and the general illumination level inside the tent is at its highest. A good long shot of the large rings can be made at 1/10 second on fast film at a wide aperture, and it will give you a nice impression of the inside of the big tent. If you're seated near enough to the arena, you can get some enjoyable shots as the clowns engage in their foolish business with spectators in the front row. Make it a point not to stand up or otherwise spoil your neighbors' view as you shoot.

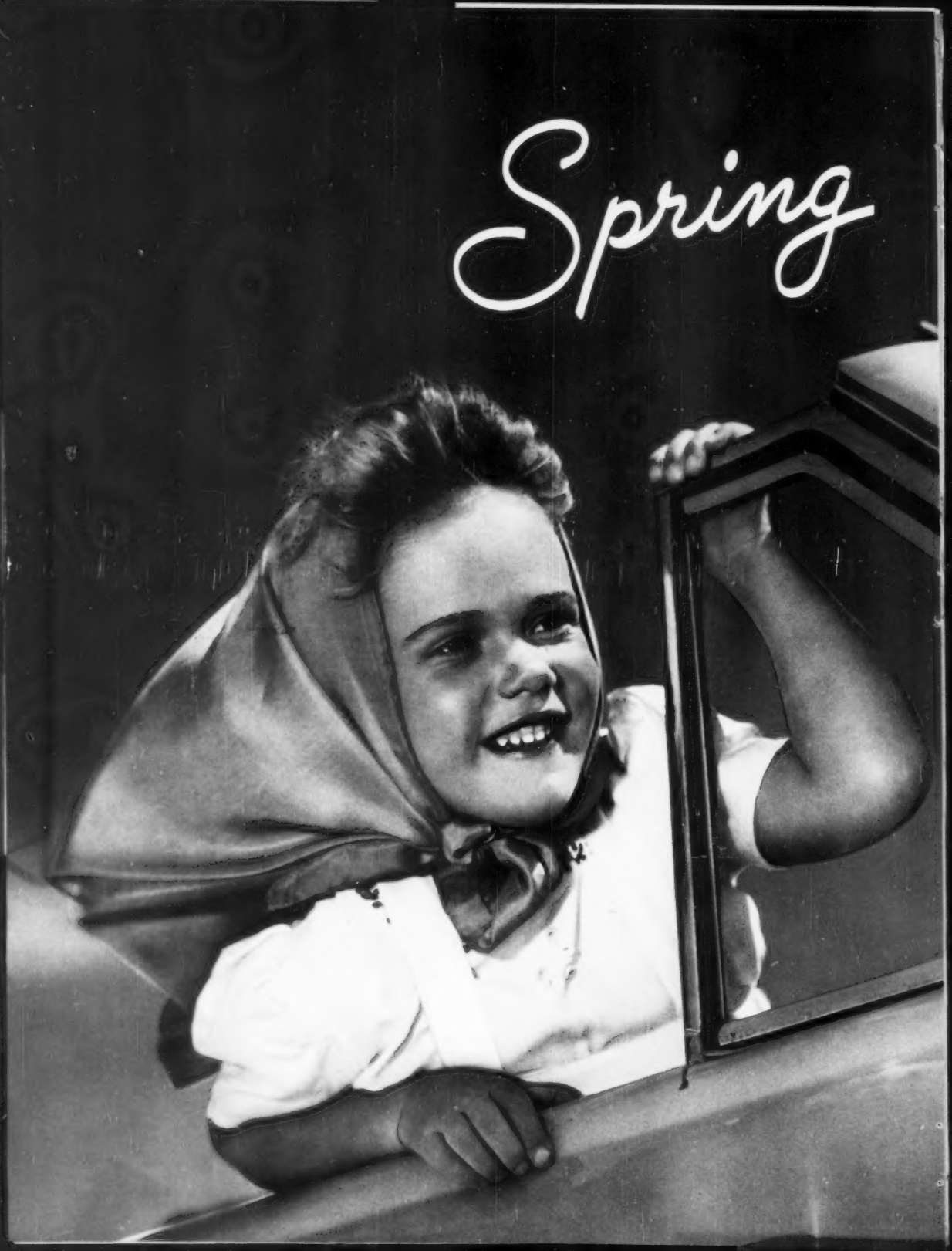
In my opinion, the really valuable shots inside the tent are the ones which exist to your right and to your left, behind you and in front of you—facial expressions which appear as the show goes on. I asked one of the circus performers what it was that gave them their ability to keep up the rugged pace they must maintain. He looked just to our left, pointed to a wide-eyed kid, and said, "There's your answer, right beside you."

The trouper knew what he was talking about, of course. You watch one of those kids, and see his expressions changing from glee to amazement to just plain happiness at being at the circus, and you'll realize what it is that keeps people in the big show keyed to the necessary pitch. You'll realize, too, that this is one of the things which made you come to the circus to shoot pictures in the first place!—▶

[*Photo-journalist Bradley Smith made his excellent color shot (on facing page) on an assignment, for the express purpose of picturing a complete carnival layout as seen from above at night. To get the required camera angle, Smith had an 80-foot platform built and made his way to the top of it with an 8x10 Ansco View Camera and tripod. He waited until most of the rides were stopped before making the 4-second exposure he needed with his 14-inch Commercial Ektar f/6.3 lens wide open. The film was Daylight Type Kodachrome, used without a filter.*—ED.]

Calliope music and the shrill cries of the barkers are brought to mind by Bradley Smith's luminous color shot of a carnival at night. It has much the same exciting atmosphere as pervades the circus midway.

Courtesy Life. Copyright Time, Inc.


Spring

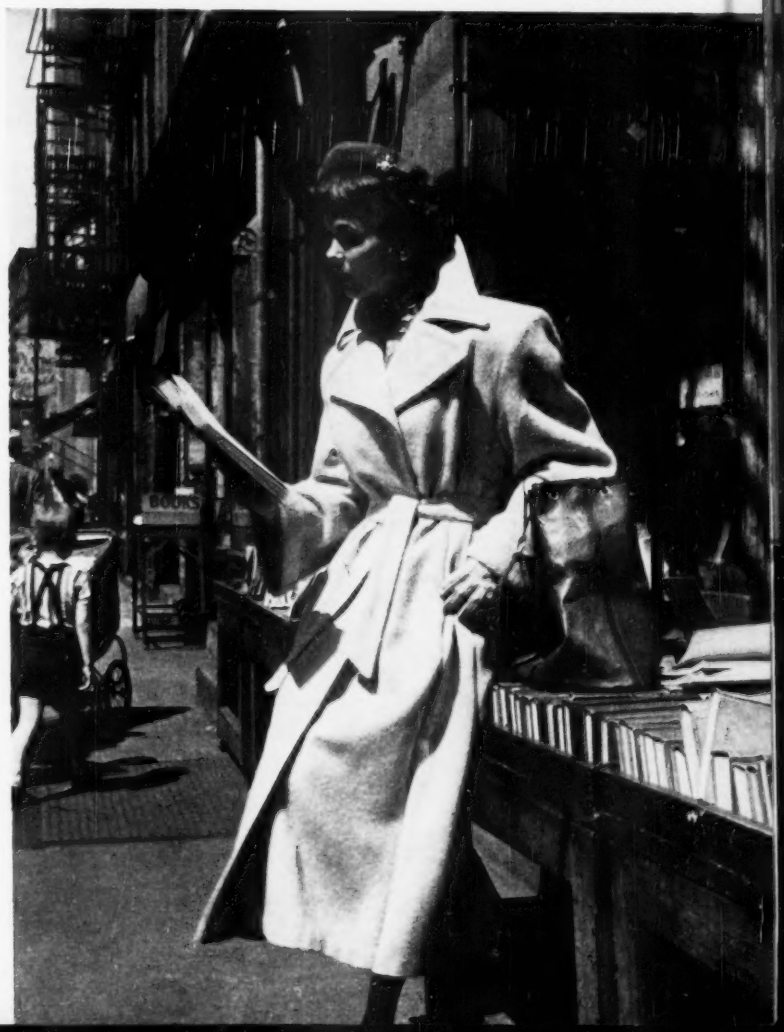
A PICTORIAL FEATURE

is Here!

ONCE again warm sunshine is luring people outdoors, and photographers have an opportunity to carry out picture-taking plans made during the winter. The excellent photographs appearing in this feature reveal how a group of alert camera owners took advantage of interesting situations to make pictures that reflect the spirit of the season. Look their work over, for it will suggest scenes you can record. For more information on these shots, see "Notes on the Picture Section."

PAT

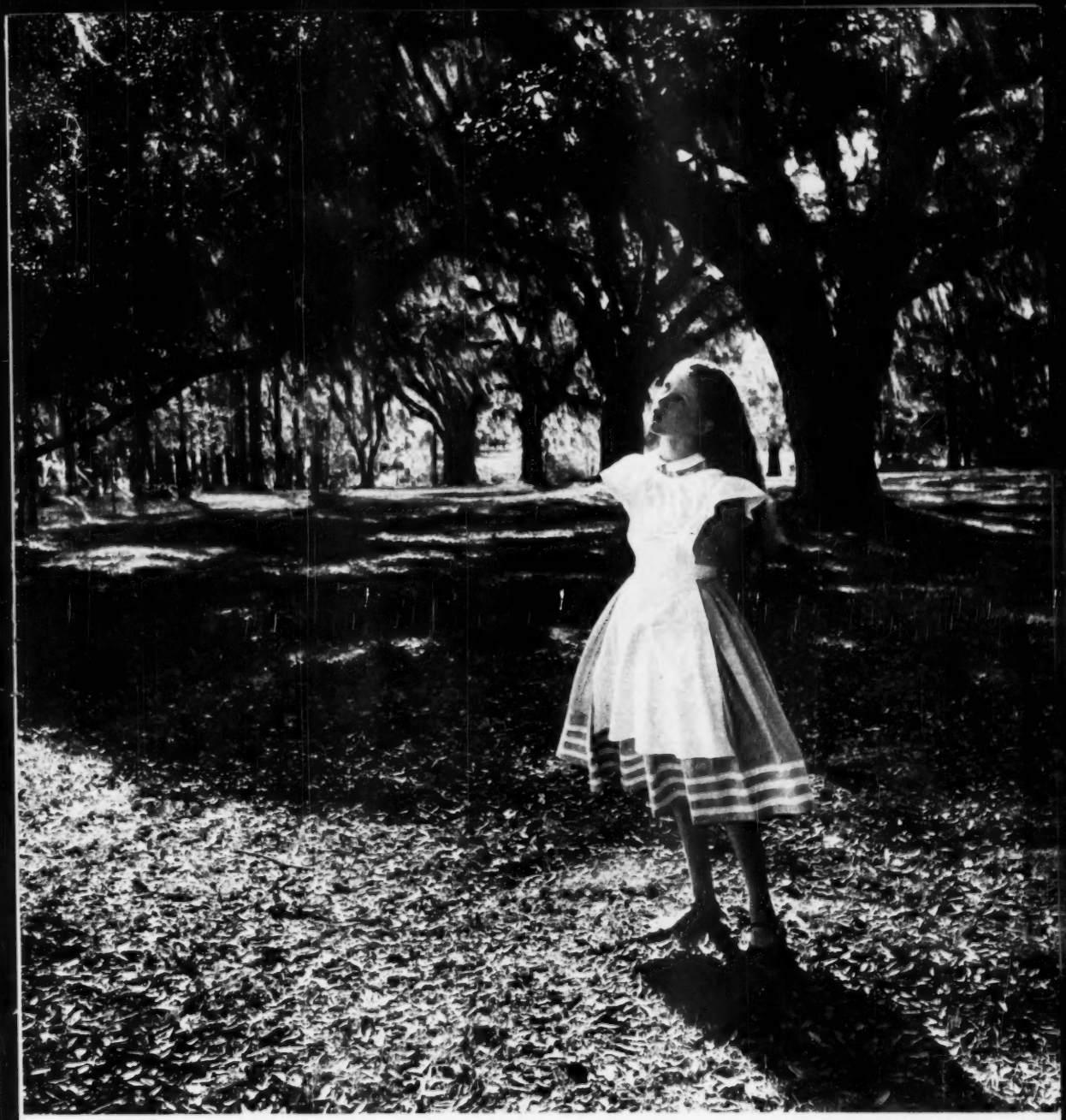
HAL REIFF



THE SIMPLE THEME "It's Spring" can be pictured in many ways. Cossie and John Mechling hit upon a fitting subject for their striking color shot when they posed a happy youngster in an open convertible. Hal Reiff found an equally appropriate setting when he spotted a fashionably-dressed young lady browsing at a sidewalk book stall.

JOY OF YOUTH

COSSIE and JOHN MECHLING



TREES

TONI FRISSELL

WHAT COULD BE MORE SYMBOLIC of spring than a lonely girl dreaming of romance, or the awed expression of a youngster inspecting the wondrous works of Mother Nature? Here Toni Frissell of New York City and Samuel Wu of Hollywood, Calif., have planned, posed, and recorded facets of the growing-up period in the lives of two young ladies.

THE LONELY NIGHT

SAMUEL WU

THE PLOWMAN

CHARLES JOHNSON

PLOWING AND BRANDING are tasks that can be photographed on any farm or cattle ranch in early spring. By emphasizing the mammoth size of the horses in his documentary shot, Charles Johnson of Kearny, N. J., captured a feeling of primitive power. Warren Leigh of Beaumont, Calif., achieved an equally dramatic effect in his picture by making use of backlighting and shooting from a high angle.

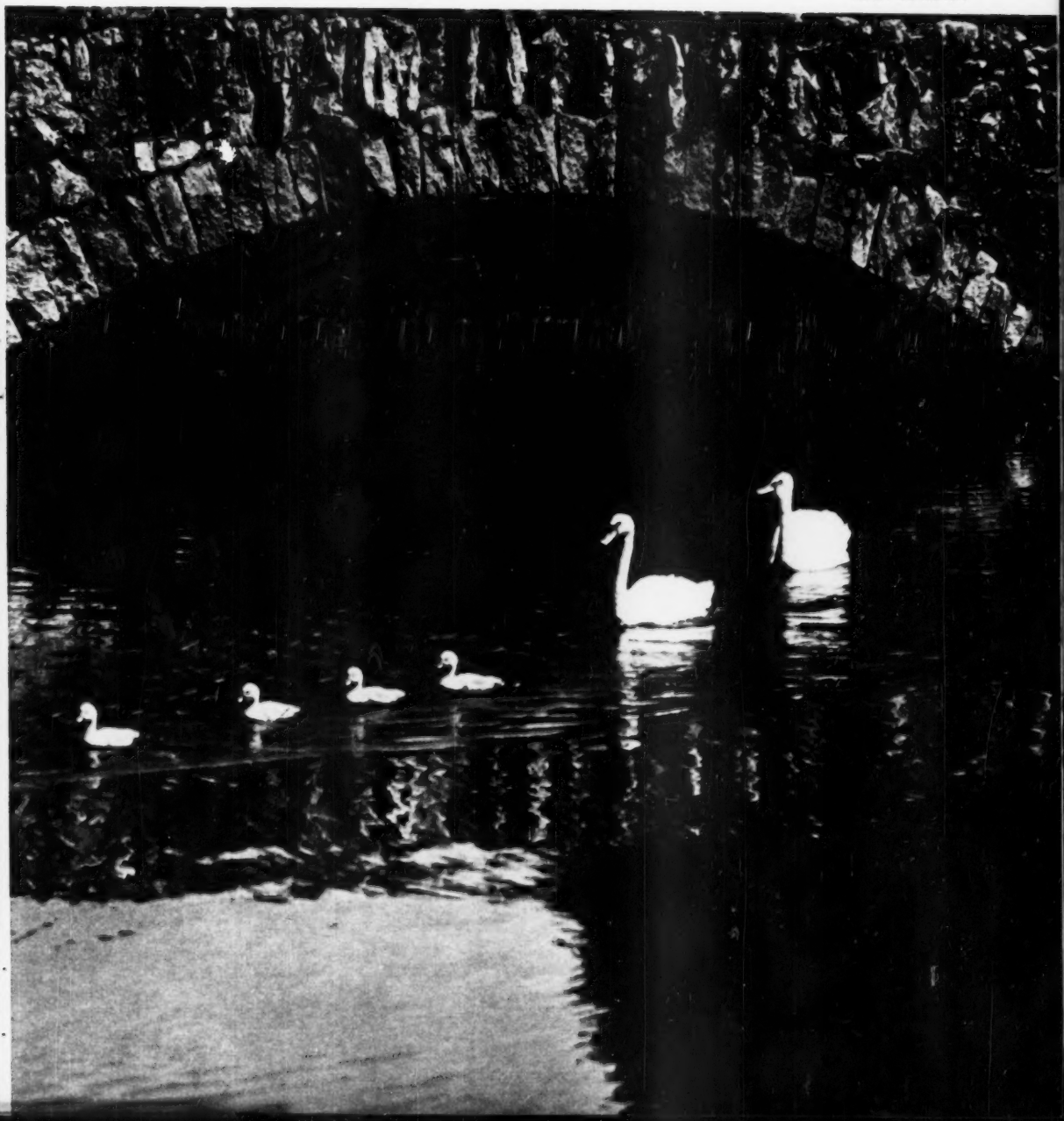
OF DUST AND SWEAT WARREN LEIGH

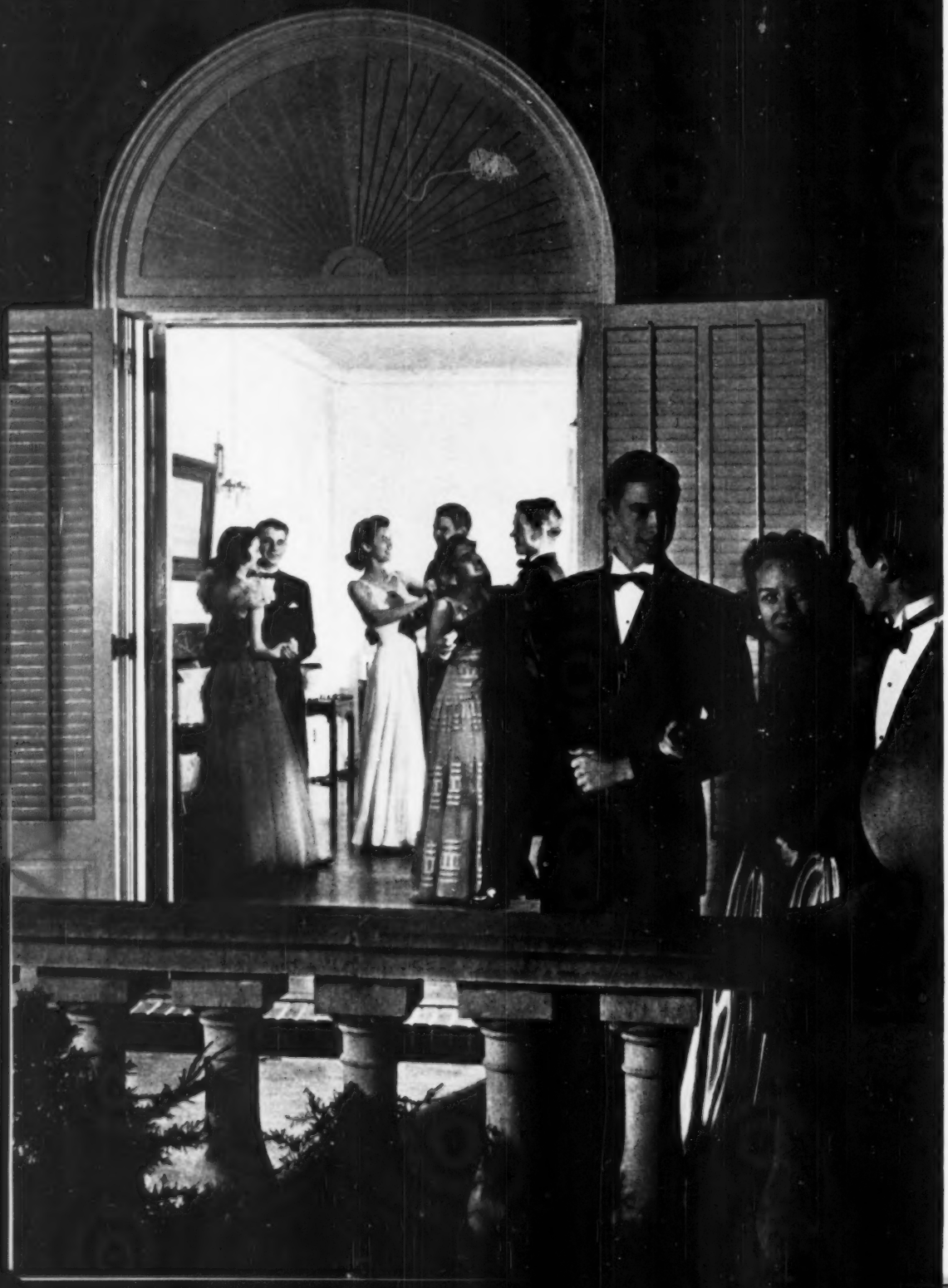
FEEDING TIME LaVERN FROST

THE ARISTOCRATS

BIRDS CARING FOR THEIR YOUNG give proof that warm, sunny days are here and winter has fled the land. The cameramen who took the accompanying shots not only had to be on the lookout for these typically spring scenes, but had to be ready to record them at a moment's notice.

HENRY SCHROYEN





SORORITY DANCE

ULRIC MEISEL

COLLEGE CAMPUSES with their well-kept buildings and grounds offer photographers a wealth of picture possibilities when warm weather beckons students out-of-doors. Ulric Meisel of Dallas recorded a social aspect of university life when he trained his camera on a group of young people attending a spring formal. Featuring the academic side of higher education are the coeds working on a term paper in the shot by Fred Swartz of Los Angeles.

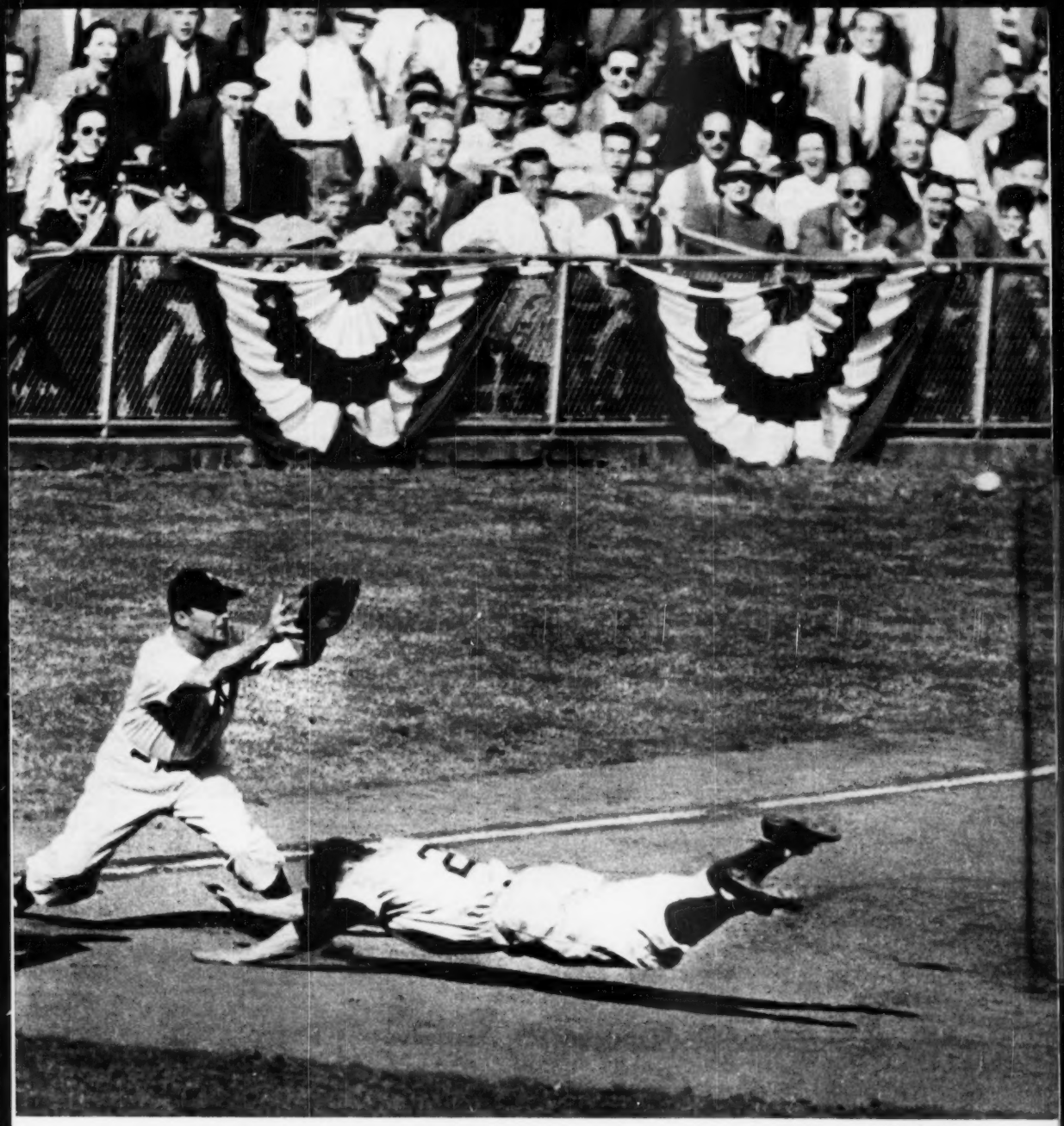
FRESH AIR STUDIES

FRED SWARTZ

WHO GOT THERE FIRST?

KILL THE UMP

JAMES STANFORD



GEORGE MILLER

SPRING HAS REALLY COME when the opening of another baseball season gives fans a chance to cheer and boo the personalities of the diamond. A close play at first base furnished the material for the fine action shot by George Miller of New York City, while an irate youngster shouting abuses at an umpire provided the story-telling situation captured by the camera of James Stanford of Olympia, Wash.

FLOWERS AND THE MONTH OF MAY are synonymous for many people. With two striking pictures Andre de Dienes of New York proves that blossoms make excellent spring subjects for the cameras of alert photographers. In the low-angle shot below he features a cluster of majestic-looking tulips; at the right he uses a bed of daisies as the setting for a lovely girl reciting the traditional "He loves me, he loves me not."

TULIP TIME

"THE COLOR SLIDE EXHIBITOR"

A PHOTO PARODY

Inspired by Philippe Halsman's rollicking book, "The Frenchman," Amateur Bernard Davis captures the same droll humor in a series of color slides

©Philippe Halsman

Fernandel, famous French film star and the subject used by Halsman in his question-and-picture book, reacted as shown, left, to the query, "Don't you think that the superiority of modern art is based on the fact that, by retreating into the realm of irreality, it invades the libido sphere of the subconscious mind?" Note the reaction of Davis' model to a likewise academic question in photograph No. 7, right.

FOR many months Bernard Davis, an industrial engineer and talented camera fan, had wanted to record the plastic face of his friend Arnold Brooks, who, by the way, is a professional portrait photographer. While casting about for picture ideas, Davis happened to see a copy of Philippe Halsman's new book which was becoming a best seller from coast to coast. Immediately a plan for photographing Brooks jelled. A photo parody would be the method Davis would use to portray his subject—but in color and as

slides. Thus the amusing and well-executed series reproduced here was inspired by a book which has the nation chuckling, and whose publishers, Simon and Schuster, are now preparing editions in several foreign languages.

The Village Camera Club, of which Davis is a member, was the first to see his slide show. It was an immediate success. A second performance was scheduled at the Camera Club of New York.

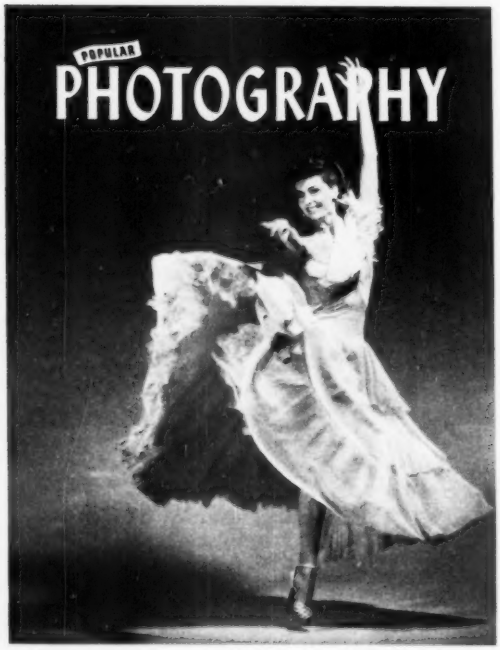
Halsman attended this second showing. What was his reaction? Well, here's what he says after having seen the slides. "I went to the camera club expecting the worst, because for weeks I was snowed under with bad imitations of *The Frenchman*. To my great surprise, I spent fifteen minutes laughing my head off together with the audience. I think that Bernard Davis has established himself as the greatest humorist of the color slide medium and, since I believe in the saying, 'imitation is the greatest of compliments,' I thank him in the name of *The Frenchman*."—

Dave Peskin BATS 1.000

A specialist who shoots action in color sells 4 out of 4 poses as covers to chalk up a perfect score

WHEN Dave Peskin of the famous *Action-in-Color* photo team (his brother Hy is the other half of the "act") took off for Hollywood in mid-winter, 1949, he hadn't an idea in the world of returning with a 1.000 batting average—or call it a "grand slam," or a "four-horse parlay" if you're allergic to baseball terminology. But that's exactly what he scored in shooting the lovely MGM dancing star Cyd Charisse, first of the photographic subjects on his prospect list.

In the course of a one-hour shooting session on one of MGM's sound stages (the appointment had been arranged by MGM's publicity department), Peskin posed Miss Charisse in each of four dancing costumes selected from the studio's wardrobe department. He made a series of Ektachrome speedlight exposures of the star going through dancing routines appropriate to each of the four costumes. The best shot in each series was then mounted and the transparencies offered for sale as cover illustrations to four national publications. Each of the four poses sold!



Cover on this issue, with Peskin's charming model in a formal gown, is one of the four action-in-color shots he made and sold.

Courtesy This Week

Fast turn executed by lovely Cyd Charisse, MGM dancing star, was stopped by Peskin in the shot used as a cover for *This Week*.

Courtesy Parade

Leaping into the air during a ballet routine, Cyd landed on the cover of *Parade*. Peskin used speedlight for these pictures.

One appeared on *This Week Magazine* for March 6, 1949; a second on *Parade* for September 11, 1949; a third on *Collier's* for January 28, 1950; and the fourth as the cover of this issue of POPULAR PHOTOGRAPHY. (*This Week* and *Parade* are both weekly newspaper supplements, usually appearing as the "magazine section" of Sunday or week-end editions of various newspapers throughout the United States. Some newspapers incorporate one or the other; a few include both.)

Peskin found Cyd Charisse particularly agreeable and easy to work with, and he suspects that it may have been due to the fact that he didn't ask her to pose in scanty bathing suits as so many other photographers had. Miss Charisse and her husband, Tony Martin, had both been appalled by the fact that the dancing star had been typed as a cheesecake subject in so much of her publicity posing. Peskin's suggestion of costume work was refreshingly different.

To produce the illustration for POPULAR PHOTOGRAPHY's cover, Peskin used an 8x10 Eastman IID View camera fitted with a 5x7 back and equipped with a 14-in. Kodak Commercial Ektar $f/6.3$ lens. Four speedlights illuminated the setting; two were directed at the background and two at the model. In making the exposure on Kodak Ektachrome Daylight film, Peskin employed an $f/8$ aperture.

Rarely does a photographer encounter a success the equal of Peskin's. His satisfaction in selling all four poses of Miss Charisse as cover illustrations must be on a par with the thrill a golfer enjoys when he shoots a hole-in-one.

Courtesy Collier's

Versatile Charisse donned a Spanish costume for this action picture which was selected for a cover illustration by *Collier's*.

The humor of this picture is pointed up sharply by careful out-of-frame trimming along its lower border.

Photography takes a TRIMMING

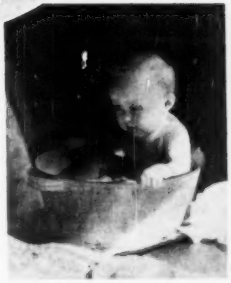
By D. WARD PEASE
Illustrations by the author

Who says prints must be rectangular? Throw caution to the winds and enjoy these refreshing departures from commonplace cropping

NEARLY every photographic print you see is rectangular, and the proportion of length to width doesn't vary very much. If you haven't already observed this fact, probably you can verify it quickly by inspecting your own pictures and those you see in magazines, books, and in the salons and exhibits. This practice of making rectangular prints in more-or-less regular proportions may have developed because such proportions fit most types of subject matter, but there is no reason why all photographs must be forced to fit a specific formula for length and width. After a brief review of these "normal" print proportions, we will see what can be done to depart from them in the case of the occasional print which can take a trimming without suffering. We might even find some that will be improved considerably, and we're sure to have fun in the process.

I can recall three different traditional dictates as to what "normal" proportions for the artistically satisfying rectangle should be. These gave 6½x8½, 5x7, and 1x1.41 as the magic formulas. Reduced to the same basis of 1 for the short side for easy comparison, these respectively are 1x1.31, 1x1.40, and 1x1.41, which indicates relatively little variation.

I suspect, however, that most photographers are inclined to take the proportions that come with the



Circular trimming is used to good advantage when curved lines predominate. Note how distracting detail is removed as a result of this cropping.

The tall panel is a natural format for this picture. The ordinary rectangle is wasteful of space, as shown below, and fails to bring out the height of the proud old sailing ship.

paper they buy. Makers of color slides for projection have an equivalent fixed limitation in the ready-made masks they use. Except for the 5x7 already mentioned, the proportions of 8x10, 11x14, 14x17, and 16x20 are inclined to be somewhat stubbier than the artistic proportions. Stock color slide masks run to proportions slimmer than the artistic "normal."

When it comes to studying out the best trimming for a print, rectangular or otherwise, the most convenient accessories will be found to be a pair of "L" shaped masks cut from white card and big enough to encompass the outlines of your usual size test print. A pair of these masks is shown in one of the accompanying illustrations. Their use among photographers is quite common, yet the final prints appear to come out in about the usual paper dimensions described in the previous paragraph. In addition to those paper proportions, the stock masks that come with enlargers and even more so, the usual run of easels seem to have been designed to discourage nonconformity.

There is even more inertia to be overcome in the case of the little color slides. Cropping can be experimented with by moving the projector so that the unwanted portions of the image go off of the screen. Then the remainder can be studied by itself without interference from that surplus. Masking tape on the slide will assure projection of only the desired area. Most of us have a certain hesitancy to discard any print or slide area. One way to meet this feeling is to try examining separately such surplus. Does it look like

anything worth keeping? Usually this approach will help you to make your decision.

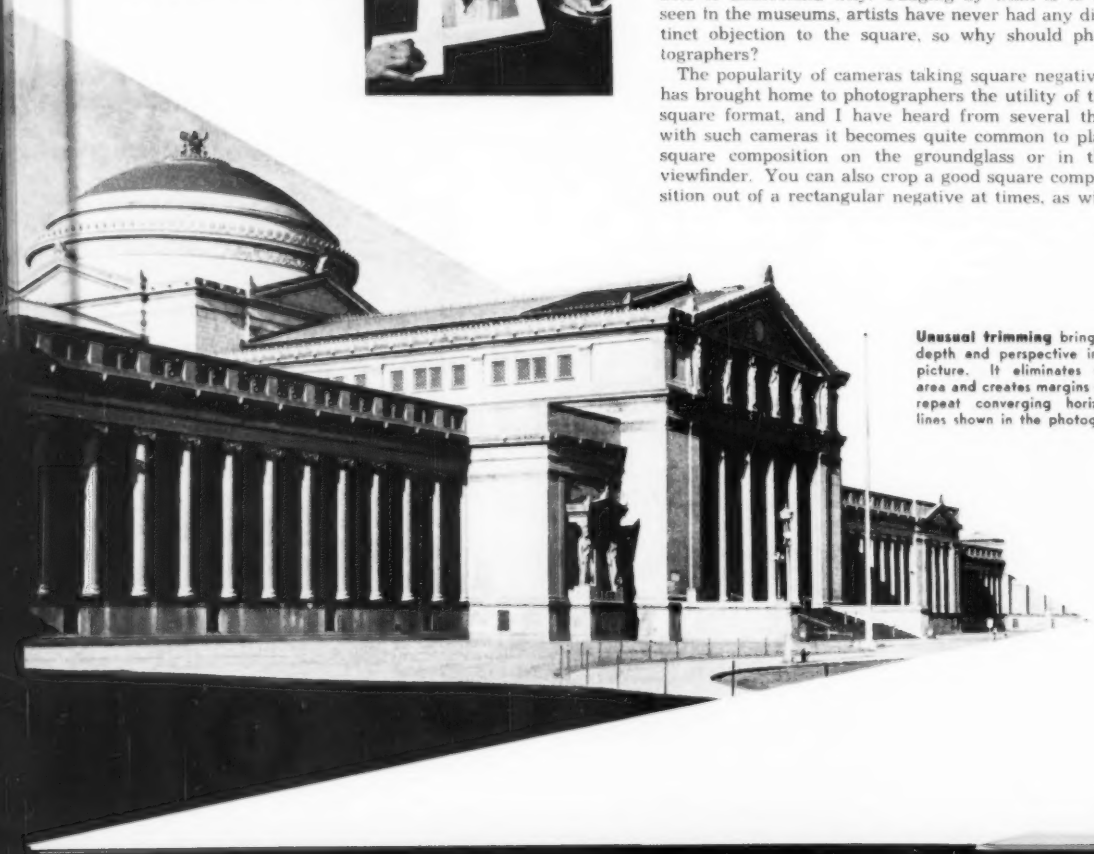
As for the slides, I am sure that a smaller screen image will create a better impression on you, your friends or the exhibition judges than a full slide image with some trash in the margins that you did not see when you made the shot. It is surprising how quickly a vastly improved print or slide makes you forget what the original looked like.

When it comes to really severe trimming, editors, particularly art editors, appear quite uninhibited. If you did take a look around in this magazine to confirm the prevalence of rectangular pictures as I suggested in the opening paragraph, you might also have noticed some departures from that norm. In examining the recent copies available as I write, I find in them from five to fourteen examples per issue of the unusual cropping I am going to talk about from here on.

Many of my friends have cameras making $2\frac{1}{4}$x$2\frac{1}{4}$ negatives. One of them tells me that his first prints are always full proofs of the square negatives. To them he applies the masks to determine the final trimming. Usually that comes out the typical rectangle, but every so often he finds that he cannot trim from top and bottom or sides to get the rectangle without losing something he saw as a part of the composition when he took the picture. The result is then a square print. I have heard objections to square pictures voiced by print critics, but I have never been able to understand why. Judging by what is to be seen in the museums, artists have never had any distinct objection to the square, so why should photographers?

The popularity of cameras taking square negatives has brought home to photographers the utility of the square format, and I have heard from several that with such cameras it becomes quite common to plan square composition on the groundglass or in the viewfinder. You can also crop a good square composition out of a rectangular negative at times, as wit-

Square format, once shunned by critics, is gaining in favor. Here Pease uses cropping "L's" on a rectangular print and finds that he prefers trimming for a square picture as shown above.



Unusual trimming brings out depth and perspective in this picture. It eliminates waste area and creates margins which repeat converging horizontal lines shown in the photograph.

The horizontal panel provides natural cropping for this reclining figure and leaves out nothing that could possibly be of importance.

ness the square illustration on the facing page. It was made that way, and improved by the cropping.

If your masks should slip the other way from the normal, you will come out with an elongated rectangle, sometimes called a panel. While a square often gets that way to fit a picture composition, a panel more likely comes as a result of fitting the outlines to the subject matter. Frequently editors trim your offerings down to slim outlines to fit them into available space, eliminating empty areas around the main interest. I am sure that no one would be interested in what has been eliminated from the accompanying panel illustrations.

If subject matter or available space dictate the proportions of the rectangle, well and good. If there is some freedom of choice, certain proportions could be a bit better than those you might arrive at haphazardly. There is a theory of artistic proportion and placement in design called Dynamic Symmetry, most of which can be passed by at this time. That part relating to rectangular print proportions has already been drawn upon for the 1x1.41 rectangle. The square is also approved by this theory. For longer rectangles, usable figures suggested by Dynamic Symmetry are 1x1.73, 1x2 and 1x2.23. All other factors being equal, these proportions are likely to be most pleasing.

From here on you might as well put away the "L" shaped masks, as they will not be of much help. There are some things that can be done with the rectangle which make it no longer a rectangle, as for instance, rounding over the top with a curved line to form an arch. I have seen a stage picture finished off with such a semicircular top which quite effectively suggested the theater and its proscenium arch. A picture of a stained-glass window of gothic design might be trimmed with a pointed top (*Continued on page* 232)

Oval framing is common for portraits. Humorous ones like this can be pointed up sharply by a little out-of-frame detail.

The **Kodak** BULLETIN

Gear up now

make it a worthy season — with worthy equipment

it's time for

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Protect your camera with a Kodak case—and it will last longer, serve you better. Kodak cases are sturdily built, of finest materials, especially to fit Kodak cameras.

Add a Kodak Auto-Release (below) to your camera kit—it is an aid which will trip the camera for you after you get into the scene, or while you're holding a reflector or extension flash near the subject, or attending to some other detail that takes you out of reach of the camera. The Auto-Release fits your camera's cable release, and provides adjustable delayed action up to about 10 seconds. Simple to use—and mighty helpful. $4.25.

A good tripod is essential—and for compactness, light weight, and reliability, pick the $23.33 Kodak Eye-Level Tripod. Accessory Kodak Turn-Tilt Tripod Head, $15.46. ←

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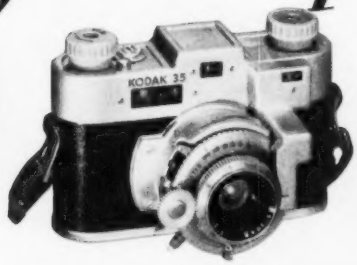
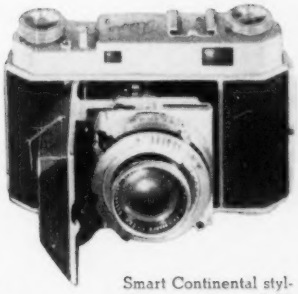
to Swing into Spring

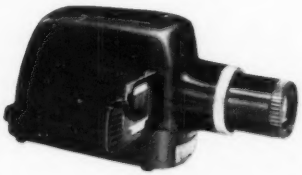
Kodak miniature cameras are famed for quality and high performance at a fair price. Above is the able, smartly designed Kodak Pony 828 Camera, with a fine *Lumenized* Kodak Anaston *f* 4.5 Lens, 1/200-second flash-synchronizing shutter of new design, ultra-smooth body release, and other refinements that put it in a class far beyond its $29.95 price. Weighs only 13¼ ounces!

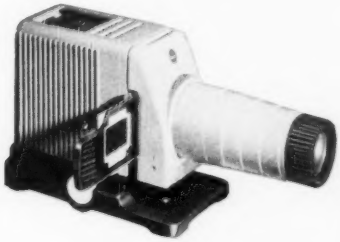


Outstanding value in its $86.75 price group is the Kodak 35 Camera—equipped with fine Kodak Anastar *f* 3.5 Lens, *Lumenized*, in flash shutter; coupled range finder, automatic shutter setting, automatic film stop, film count, double exposure prevention . . . all the refinements you'd expect in a camera at double the price. Choose the "35"—and your enlargements and Kodachrome transparencies will rank with the best.



Smart Continental styling—a super-speed *f* 2 lens—1/500-second Compur-Rapid Shutter—coupled range finder—watchlike precision and finish—all join to put the Kodak Retina II Camera in the top rank of fine 35mm. miniatures. Examine it—and you'll fall in love at first sight. $197.75.





You should have a good projector to show your spring and summer Kodachrome transparencies—and Kodaslide projectors are tops in their field. Above, the 150-watt Kodaslide, Model 1A, with 4-inch *f* 3.5 *Lumenized* lens and *Lumenized* condensers—$29.50. Right, center, the 2A—beautifully built, with die-cast body, 5-inch *f*/3.5 *Lumenized* lens, *Lumenized* condensers, smooth elevating mechanism, smart gray-and-black finish, 150-watt lamp—an outstanding value at $49.50. Far right, the unmatched Kodaslide Projector, Master Model—1000-watt, power-cooled, available with any of five superb Kodak Projection Ektar and Projection Ektanon Lenses, with apertures up to *f* 2.3. Without case, $150 up, depending on the lens you select. Below, the unique Kodaslide Table Viewer—projector, slide changer, and screen, all in one unit, perfect for small groups at home. $95.

Miniature Kodachrome slides are easy with your Kodak Reflex I or II Camera—when you use a Kodak 828 Adapter Kit (at left; only $5). A similar kit for any of the three top Kodak Tourist Camera models permits any of four different sizes of pictures—including miniature transparencies! Tourist Adapter Kit, with three view-finder masks, backframe masks, miniature spool adapters, and pouch case, $14.50.

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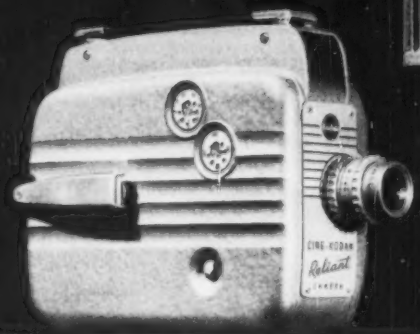

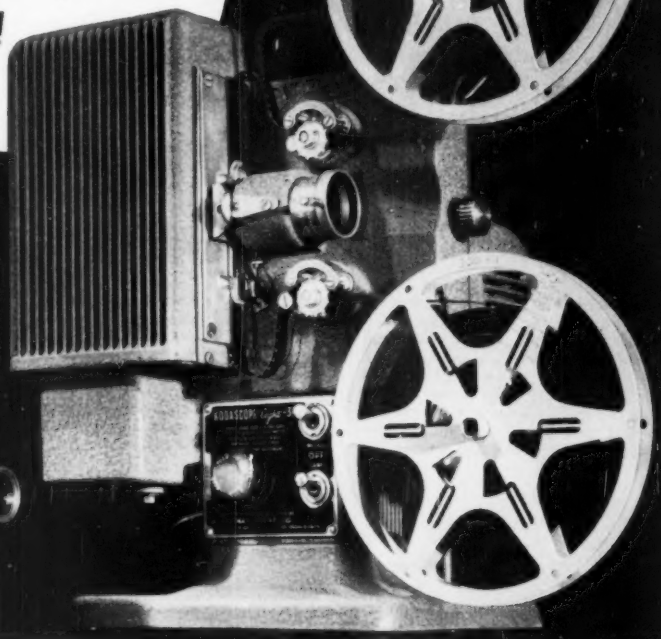

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Here's real projector value—a trim little "Eight" that's sturdily built to stand up in use . . . that's designed for simple, positive operation . . . and that's equipped for really wonderful personal movie shows.

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Kodak
TRADE MARK

TIPS ON TRAVEL FILMING

Make your vacation movies more valuable by following this expert's suggestions

By ROBERT FRIARS
As told to RICHARD B. ESPEY

I GOT INTO the travelogue business through the back door. Most travelogue makers start with a movie camera first, then do their traveling. I had been seeing the world by the "hitch-hiking" route for many years before I made my first travel movie in 1940.

I bought a 16-mm magazine type camera, an exposure meter, a light tripod and some film. I already had the title for my show: "On Foot Through Central America," so I headed south. As I traveled, I wondered why I hadn't thought of this before. Movie making seemed easy.

When I came back and looked at the results, the easiest part was to see where I had done wrong. I had panned with gay abandon, I had been lavish with long shots in wild attempts to capture all of the beautiful scenery, I had frequently argued with my exposure meter, and the tripod I had chosen quivered like an aspen with each passing zephyr.

Since then, however, I have made eight other travelogues and shown them to more than four million people. You can't do that without learning something about making movies.

Now we (our crew includes myself, my wife, another cameraman and his wife) travel with a "rack over" Kodak Cine Special, two Bell & Howell 70 DA's, a gas-powered 17KW generator which will light about 30 floods, the best tripods we can buy, four exposure meters—and a Rolleiflex for still shots. We don't carry all this on our backs; we use a station wagon. We shoot Kodachrome and my remarks are confined to use of that type of film.

Celebrities (that's Tyrone Power and Linda Christian, right) add spice to your travelogues. Note that the filmers—Friars, his wife, and Shirley Richter—use sturdy tripods.

Making travelogues professionally is a complex job. Yet basically the same picture taking rules apply to the amateur who wants to get the most out of the travel films he makes, both for his own satisfaction and for the pleasure of future audiences.

Let's say that the next few months will see you off on that long planned trip to Europe, or to Colorado, or even to the park in the next state. You've got a motion picture camera, a tripod, and an exposure meter, plus a desire to come back with a full pictorial record of your travels that will be better than any previous effort. You can begin work right now, because your first job before you take off is to check thoroughly every piece of equipment. Run a trial roll of film through the camera, using all the various apertures and speeds. Check your exposure meter under a variety of conditions against another you know to be accurate. Take a good look at your tripod. Is it substantial? When you get your trial roll

(Continued on page 224)

Emphasize close-ups and local color. Friars did both in France by shooting a beach contest and this close shot of the winner.

Humor goes over big—especially if pointed at the cameraman. Digress from your shooting script to include such situations.

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NOTES ON THE PICTURE SECTION

PAGE 58

The beautiful color shot which introduces the picture section this month was made by Cossie and John Mechling near their home at Laguna Beach, Calif. The little girl who posed for this picture is Leslie Ealy. The Mechlings used a 4x5 Model D Graflex camera and an 8½-in. Kodak Commercial Ektar *f*/6.3 lens. Exposure, on Kodak Ektachrome Daylight film, was 1/35 second at *f*/8. One G-E No. 22 flashbulb was used to lighten the shadow areas. John Mechling writes that taking this picture wasn't the easiest thing ever done. While he was in the process of adjusting his camera and shooting, Cossie Mechling was at his side giving directions to little Leslie. Two people were out in the brush emitting weird noises to amuse and attract the attention of the model. The unsung hero was Leslie's mother, Bettie Ealy, who was down in the car, clutching the legs of her energetic daughter.

PAGE 59

Hal Reiff's photograph of a girl reading at a book stall in New York City was made with a 2¼x2¼ Rolleiflex and a 75-mm Zeiss Tessar *f*/3.5 lens on Kodak Super-XX film. Exposure was 1/100 second at *f*/11. Pat McElroy is the model.

PAGE 60

The Lonely Night, Samuel Wu's symbolic picture, was made in the photographer's Hollywood studio. The camera used was a 5x7 Ansco View fitted with a 4x5 back and equipped with an 8½-in. Zeiss Tessar *f*/4.5 lens. Illumination was provided by 500-watt spotlights. Exposure, on Ansco Superpan Press film, was 1/10 second at *f*/16. Sheila Rudolph is the model who posed for this picture—a prize-winning entry in the 1948 POPULAR PHOTOGRAPHY Picture Contest.

PAGE 61

Toni Frissell's picture of a charming junior miss looking up at a willow tree was taken in Charleston, S. C. The photographer used a 2¼x2¼ Rolleiflex, a 75-mm Zeiss Tessar *f*/3.5 lens, and a medium-yellow filter on Ansco Supreme film. Exposure was 1/100 second at *f*/6.3. Photo published by courtesy of *Harper's Bazaar*.

PAGE 62

The Plowman, by Charles Johnson, was made near North Arlington, N. J., with a 2¼x3¼ Speed Graphic, a 101-mm Kodak Ektar *f*/4.5 lens, and a medium-yellow filter. Exposure for this 1948 prize winner was 1/100 second at *f*/11 on Kodak Super-XX film.

PAGE 63

Of Dust and Sweat was taken on the Morongo Indian Reservation at Banning, Calif., by Warren Leigh. The camera used was a 4x5 Speed Graphic equipped with a 135-mm Optar *f*/4.7 lens. Exposure, on Kodak Super-XX film, was 1/400 second at *f*/8. To make use of backlighting in shooting this 1948 prize winner, Leigh selected a camera position that was in the midst of a thick cloud of dust. Instead of putting him at a disadvantage, the dusty atmosphere added to the dramatic feeling captured in the picture.

PAGE 64

Feeding Time—another 1948 contest winner—was produced in Crystal, Mich., by LaVern Frost. To make this fine close-up the photographer mounted his 3¼x4¼ Graflex on a tripod and tripped the shutter by remote control. Exposure, on Kodak Super-XX film, was 1/1000 second at *f*/8. To light the setting Frost used an electronic flash unit.

PAGE 65

The Aristocrats, by Henry Schroyen, was made in Victoria, B. C., with a 3¼x4¼ Graflex, a 6⅜-in. Kodak *f*/4.5 lens, and a medium-yellow filter. Exposure, on Kodak Super-XX film, was 1/30 second at *f*/16. Schroyen writes that in order to record this scene he had to wait—with camera in hand—exactly two-and-a-half hours before the swans came swimming out from under the bridge.

PAGE 66

Ulric Meisel's photograph of a sorority dance was taken at Hockaday College in Dallas. The camera used was a 2¼x2¼ Rolleiflex equipped with a 75-mm Zeiss Tessar *f*/3.5 lens. Five flashbulbs were used to illuminate the setting; four were directed at the dancers inside the building and the fifth at the young people on the terrace. Exposure for this posed shot was 1/100 second at *f*/11 on Ansco Supreme film.

PAGE 67

The shot of three pretty coeds studying was made in Los Angeles by Fred Swartz. Used to produce this prize winner in the 1948 contest were a 4x5 Speed Graphic and a 135-mm Optar *f*/4.7 lens. Exposure, on Kodak Super-XX film, was 1/100 second at *f*/8.

PAGE 68

Kill the Ump, by James Stanford, was made with a 9x12-cm Model B Maximar camera and a 6½-in. Zeiss Tessar *f*/4.5 lens on Kodak Plus-X film. Exposure was 1/100 second at *f*/11. Tommy Stanford is the model. The photographer writes, "My original idea for this shot was simply to photograph an eye behind a knothole, but the larger opening in this battered fence provided a much better story."

PAGE 69

The thrilling baseball shot found on this page is another entry which won a prize in the 1948 contest. It was made by George Miller while he was on a newspaper assignment covering a game in New York City's Yankee Stadium. The camera used was a 4x5 Graflex equipped with a 28-in. Zeiss Tessar *f*/5 lens. Exposure, on a fast panchromatic film, was 1/1000 at *f*/8.

PAGE 70-71

Tulip Time was made in France by Andre de Dienes. The photographic equipment used consisted of a 2¼x2¼ Rolleiflex, a 75-mm Zeiss Tessar *f*/3.5 lens, and a light-yellow filter. Exposure, on a fast panchromatic film, was 1/25 second at *f*/22.

Springtime, another example of de Dienes' fine work, was produced on Long Island with a 2¼x2¼ Rolleiflex, a 75-mm Zeiss Tessar *f*/3.5 lens, and a light-yellow filter. Exposure, on a fast panchromatic film, was 1/50 second at *f*/11. Dolores Espinosa is the lovely model who posed for de Dienes.

Lois Steinmetz

In the Everglades making pictures of a cattle round-up on a Seminole Indian reservation, Photographer Joe Steinmetz reached in his flashbulb bag and found himself clutching a rattler whose head, fortunately, still was nestled among the bulbs. Steinmetz disposed of the snake but faced the disapproval of the Indians, who consider the snake sacred. They also warned him that the mate would be along soon. Steinmetz now carries a first aid kit in the event that he meets up with a certain widowed rattler. On the corral fence in the background is a group of young Seminole girls in colorful dress.

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He Spots 'em from the Air

(*Continued from page 47*)

lighting, and altitude must be correlated to produce an interesting composition.

Inasmuch as his procedure for taking aerial photographs is planned in advance, once Statile has achieved the desired altitude, he is free to concentrate on his objective—that of getting superlatively good pictures from a lofty angle. Whether his subject is an industrial plant, a housing project, roadbuilding progress, or any one of a number of possible pictorial targets, the resulting photographs are consistently sharp, clear, and show good detail.

Statile does most of his aerial work over the urban area at 1,500 feet. He normally uses a 5x7 Fairchild-type aerial camera fitted with a 15-inch Wollensak f/5.6 lens, Kodak Super-XX film, and a light yellow (Aero No. 1) filter. For best results, he confines his shooting to bright sunny days when there is a minimum of haze in the air. The photographs illustrating this article were shot at 1/400 sec. with the lens either wide open or stopped down slightly to f/6.3.

Statile believes that the kind of pictures he shows here can be made also through the portholes of an airliner by any amateur or professional—although in this case the photographer would have little control over his direction and altitude, and thus would have to shoot what was available rather than what he might want to shoot.

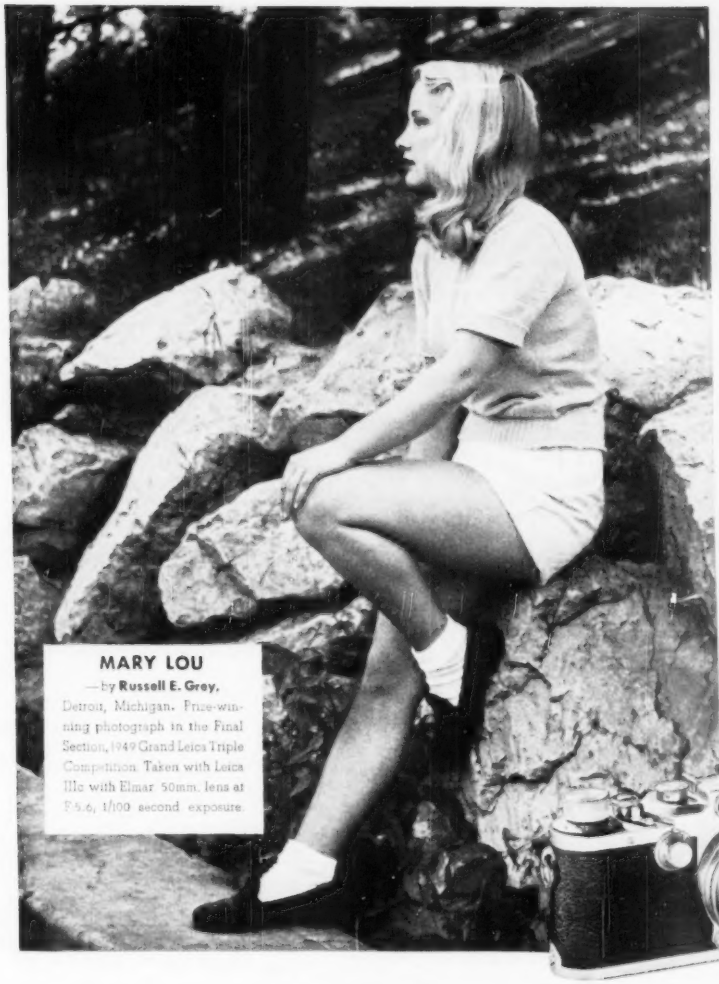
The principal precautions to take when shooting from commercial airliners, Statile says, are: Get a seat next to the window. Be sure the glass is clean—better check this before the flight starts. Take necessary precautions to avoid vibration—in other words, see that neither the camera nor your hands or elbows touch the airplane. And, finally, have the lens close to the glass, and nearly parallel with it, in order to avoid the possibility of reflections.

A former news photographer, Statile has specialized in aerial and industrial photography since opening his New York studio ten years ago. His roster of clients includes some of the biggest names in American industry: U.S. Steel, the United Fruit Company, the New York Telephone Company, and many others.

Statile has made some of his best pictures while flying to or from an assignment. If he spots a likely subject, he flies around it several times to size it up. Then he aims his aerial camera, shoots—and the result is often a pictorial bull's-eye!

Next time you find yourself near an airport with your camera, take a 15 or 20 minute picture flight (it'll cost about $2.50, maybe $3), and keep some of Statile's pointers in mind—you'll get a new angle on pictures and may even want to become a flying photographer. A combination of the fascinating pursuit of flying with the thrill of spotting and shooting photographs that are unusual provides an exhilarating hobby, and one that may also prove to be lucrative.

Good shooting, and happy landings.—



MARY LOU
—by **Russell E. Grey,** Detroit, Michigan. Prize-winning photograph in the Final Section, 1949 Grand Leica Triple Competition. Taken with Leica IIIc with Elmar 50mm. lens at F:5.6, 1/100 second exposure.

I would like to give credit and praise to the Leica camera . . . I have never ceased to marvel at its precision, compactness and design . . . its performance and service. The Leica is the camera I would recommend to anyone interested in miniature camera photography.

Russell E. Grey

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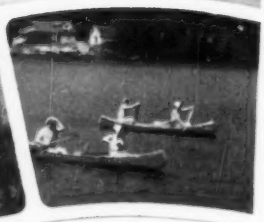

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POPULAR PHOTOGRAPHY

1950 DIRECTORY

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OF PHOTOGRAPHIC EQUIPMENT

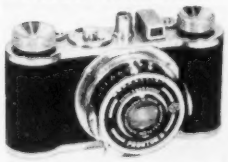
THIS Directory, the largest and most popular of its kind ever published, confines its listings primarily to photographic equipment for the amateur.

The Directory was compiled by the editors of POPULAR PHOTOGRAPHY, who relied on information furnished by the manufacturers and distributors of the equipment. The properties ascribed to the various items are those claimed by the manufacturers and distributors themselves.

Limitations of space prohibited detailed listingf of some types of equipment. Classified under the heading of "Miscellaneous Equipment" will be found a condensed Directory covering items not described in detail. Further information on any items may be obtained by contacting the manufacturers or distributors. A listing of their addresses begins on page 208. All data given and prices quoted are as of March 1, 1950 and are subject to change.

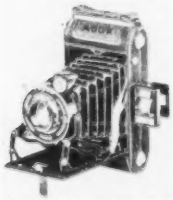
STILL CAMERAS

ADOX ADRETTE II



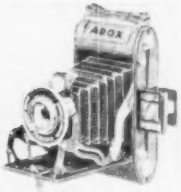
Cartridge 35 mm; 36 exposures, 1x1¼; 50-mm Schneider lens; shutter speeds from 1 to 1/500 sec., T & B; eye-level finder; scale and manual focusing. Price, with f/2 Schneider Xenon lens in Compur Rapid shutter, $85; with Xenar f/2.8 lens in Compur shutter, $72; with Schneider Radionar f/2.9 lens in Prontor Flash shutter with built-in synchronization and delayed action, $50. All prices include tax. Eveready case, $5.50.

ADOX I



Roll film size 120; 8 exposures, 2¼x3¼ or 16 exposures 1⅝x2¼; 4¼-inch Schneider Radionar f/4.5 lens in Vario shutter with speeds from 1/25 to 1/100 sec., T & B; eye- and waist-level finders; manual focusing; film mask; body release. Price, $39.50 including tax. Case, $6.75.

ADOX II



Similar to Adox I except has Prontor II shutter with speeds from 1 to 1/200 sec., T & B; built-in synchronization; delayed action. Price, with 4¼-inch Schneider Radionar f/4.5 lens, $56.50; with 4¼-inch Xenar lens, $65. Price includes tax; eveready case, $6.75.

DIST., Camera Specialty Co.

AGFA KARAT II

Cartridge 35 mm; 12 exposures, 24x36 mm; coated 50-mm Schneider Xenar f 2.8 lens; Compur Rapid shutter, speeds from 1 sec. to 1/500 sec., T & B; eye-level finder; coupled rangefinder; 1 window for range- and viewfinders; eveready case; hyperfocal distance table; depth of field guide; exposure counter; finger lever simultaneously transports film and cocks shutter. Price, $95. Accessories include slip-on lenses, filters, and lens shade.

DIST., A. G Photo Co.

ALPA REFLEX ALPAX MODEL

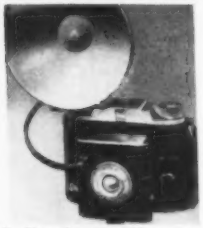
Single-lens miniature reflex; 35-mm film size; 20 or 36 exposures, 24x36 mm; coated 50-mm Alfinon Anastigmat f/2.8 lens; depth of field scale; focal-plane shutter with speeds from 1 to 1/1000 sec., T & B; lens set in bayonet mount; built-in synchronization for all lamps; eye- and waist-level finders; reflex and coupled rangefinder focusing; exposure counter; device to permit double exposing. Price, $231 plus tax; eveready case, $12; regular case, $10.80.

ALPA REFLEX ALITAX MODEL

Similar to the Alpax model except that it is equipped with a coated 50-mm Angenieux Anastigmat f/1.8 lens which stops down to f/22. Price, $315 plus tax. Lenses available for Alpa cameras: 35-mm Alfinar f/3.5 wide-angle lens; 75-mm Alsetar f/3.5 lens; 90-mm Alportar f/2.5 lens; 135-mm Alogar f/3.5 lens; and 180-mm Alefar f/4.5 lens.

DIST., Heitz & Lightburn.

ANSCO FLASH CLIPPER



Roll film size 616; 16 exposures; 2 1/16x2¼ size; fixed focus; double lens; rotary shutter; built-in synchronization; eye-level viewfinder. Price, $13.75 including tax. Accessories include eveready case at $3.25.

ANSCO PIONEER 16

Roll film size 616; 8 exposures, 2¼x2¼ size; single f/14 lens; fixed focus; rotary shutter; speed 1/50 sec.; eye-level finder; built-in synchronization. Price, $8.95 including tax. Flash attachment available as accessory.

ANSCO REDIFLEX

Roll film size 620; 12 exposures; 2¼x2¼ size; double f/11 lens; fixed focus; rotary shutter with Inst. (1/50) and Bulb; built-in synchronization; reflex-type finder. Price, $12.95. Accessories include flash attachment, two types of eveready cases.

ANSCO AUTOMATIC REFLEX

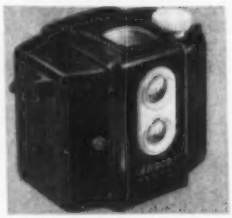
Roll film size 120; 12 exposures 2¼x2¼; 2-lens reflex; 83-mm coated anastigmat f/3.5 lens; depth of field scale; set-and-release-type shutter; speeds from 1 to 1/400 sec. and B; built-in synchronization; eye-level and reflex-type finders; focusing scale; ex-

posure counter; automatic film transport; double exposure prevention device; lever for taking multiple exposures; dual focusing controls; depth of field guide. Price, $165 including tax; also available without synchronized shutter $145; eveready case, $12.50. Accessories include filters, lens shade.

ANSCO PIONEER 20

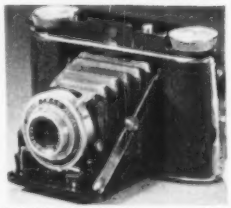
Roll film size 620; 8 exposures; 2¼x3¼ size; same features and equipment as Pioneer 16. Price, $7.95 including tax.

ANSCO PANDA



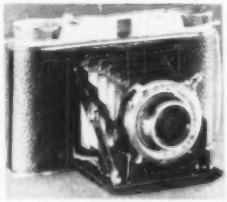
Roll film size 620; 12 exposures; 2¼x2¼ size; single f/14 lens; fixed focus; rotary shutter; speed 1/50 sec.; reflex-type finder. Price, $4.54 including tax. Eveready case, $1.10.

ANSCO f6.3 SPEEDEX



Roll film size 120; 12 exposures, 2¼x2¼; self-erecting folding camera; coated 90-mm Ansco Anastigmat f/6.3 lens in Automatic shutter with speeds from 1/25 to 1/100 sec., T; built-in synchronization; built-in eye-level finder; helical focusing; body release. Price, $38.95 plus tax. Eveready case, $6.75.

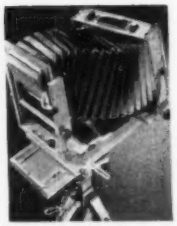
ANSCO TITAN



Roll film size 120; 12 exposures 2¼x2¼; 90-mm coated anastigmat f/4.5 lens with depth of field scale; set-and-release-type shutter; speeds from 1/5 to 1/400 sec., with time and bulb; built-in synchronizer; eye-level finder; scale and helical focus. Price, $69.50 including tax; eveready case, $7.50.

ANSCO UNIVERSAL VIEW—5x7

Sheet film 5x7; removable lens board; tilt and swing back; tilt and vertical and horizontal controls on lens board; 20" bellows extension. Price (without lens) including extra lens board and with case,



$149.08 including tax. Also available without case.

ANSCO UNIVERSAL VIEW—8x10

Similar to above; take 8x10 sheet film. Price $179.86 including tax. Price includes case and extra lens board.

ANSCO SHUR SHOT

Roll film size 120; 8 exposures 2¼x3¼; single f/14 lens; rotary shutter with 1/50 speed; waist-level finder; fixed focus. Price, including tax, $3.95.
MFR., Ansco.

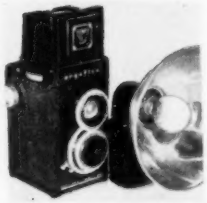
APLAX MODEL 35

Cartridge 35 mm; 36 exposures, 1x1½"; miniature camera; 50-mm coated f/1.9 Foca lens; depth of field scale; focal plane shutter, speeds from 1/10 to 1/1000 sec., T & B; built-in synchronization; eye-level finder; helical focus; coupled rangefinder. 1 window for range- and viewfinders; hyperfocal distance table. Price, with eveready case, $295.

APOLLO

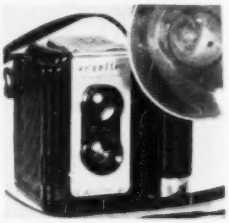
Roll film size 120; 16 exposures, 4¼x6 cm; self-erecting type; coated 75-mm Westler Anastigmat f/3.5 lens; shutter speeds from 1 to 1/200 sec., T & B; delayed action self timer built in below front lens; built-in eye-level finder; body release; depth of field scale; accessory clip. Price, with eveready case, $39.95 including tax.
DIST., General Photographic Supply Co.

ARGOFLEX EF



Roll film size 620; 12 exposures, 2¼x2¼; coated 75-mm Varex f/4.5 taking lens geared to f/4.5 viewing lens; critical focus magnifier; shutter speeds from 1/10 to 1/200 sec., T & B; built-in flash synchronization; depth of field guide; eye-level sports finder; eveready case. Price, $56.95 including tax; flash unit, $8.63. Accessories include slip-on lenses, filters, flash extension, lens shade.

ARGOFLEX 75



Roll film size 620; 12 exposures, 2¼x2¼; fixed-focus f/13 taking lens; reflex viewfinder with folding metal hood; I & T shutter speeds; body release; built-in synchronization; double exposure prevention device. Price, $14.89 including tax; flash unit, $4.08; carrying case, $2.50. Accessories include slip-on lenses, filters, lens shade.

MODEL ARGOFLEX

Roll film size 620; 12 exposures, 2¼x2¼; coated 75 mm anastigmat f/4.5 taking lens; waist-level finder; reflex focusing; shutter speeds from 1/25 to 1/150 sec., B; double exposure prevention device; voluntary double exposure arrangement; built-in synchronization; body release; eveready case. Price, $33.95; flash unit, $4.08. Prices include tax.

ARGUS A-2

Cartridge 35 mm; up to 36 exposures 24x36 mm; coated Cooke-type Triplet f/4.5 anastigmat lens; Compur-type shutter speeds from 1/25 to 1/150 sec., T & B; eye-level finder; two-point focusing; exposure counter, built-in exposure meter. Price $32.08 including tax; carrying case, $5.50. Accessories include slip-on lenses, filters, and lens shade.

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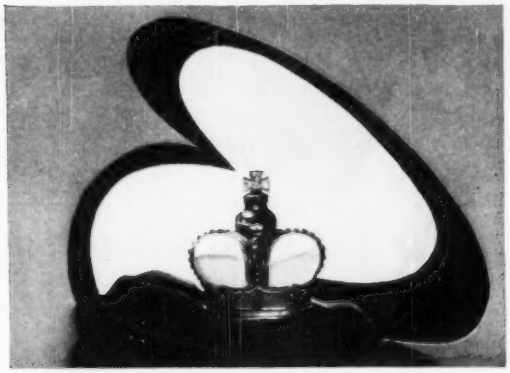
BY LEONARD FORNITO: Partner in suburban New York portrait studio . . . sensed the value of advanced study . . . naturally picked SMP for its ultra modern equipment and personalized instruction. Now back in his own studio, moving ahead faster than ever.



BY RICHARD LO IACONE: from a hobby, he "found photography interesting enough to be a stimulus." SMP students and graduates confirmed his feeling. SMP courses have proved to him that he can step into a good studio, with the help of SMP's free job placement service.

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Only $99.50—unprecedented in Graflex history—and you'll have a 2¼x3¼ press-type camera with loads of outstanding features that mean prize-winning pictures! Here are just a few: double-extension bellows; rising, shifting and tilting front standard; drop-bed; telescoping action frame finder; interchangeable lenses and ground-glass focusing panel. A big *plus* feature is the new Graflok* Back which allows you to use sheet film, film packs and roll film holders interchangeably.

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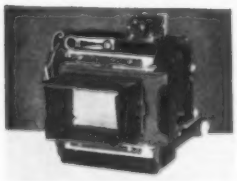
Yes, now you can use standard, inexpensive 120 black and white or color roll film with your new Century GRAPHIC* or other 2¼x3¼ Graphic or Graflex cameras! This precision-made Graflex Roll Holder is fully automatic—film stops in position for each picture! Visible counter tells how many exposures have been made! Dark slide allows instant switching to another type of film or changeover to cut film or packs!

Available in two popular picture sizes: for eight 2¼x3¼ or twelve 2¼x2¼ pictures; two models Graphic or Graflex. Let your dealer show you how easy it is to use a new Graflex Roll Holder on *your* camera.

New GRAFLOK BACK



Here's a spring-loaded Graphic back with *built-in slide locks* permitting instant removal of the ground glass back and allowing complete interchangeability of Graphic film holders, film pack adapters, and new Graphic "22" and "23" Roll Holders! Further, these exclusive locks may be used when ground glass back is on the camera to lock a pack adapter to the camera. Complete with 4-sided all metal folding focusing hood, the Graflok Back is standard on the Century and Pacemaker "23" GRAPHICS and is available for all earlier 2¼x3¼ Graphic cameras not now so equipped.

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If you intend regularly to use roll film on your 2¼x3¼ press-type camera, you can buy special spring clips for only $1.80 a pair and use the new Graflex Roll Holder. Just remove the two screws that hold focusing panel, install clips and on goes the Roll Holder!

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Ektalite Field Lens Makes Super D Graflex Greater Than Ever!

Now the finest single lens reflex camera made is equipped with the sensational new Field Lens that collects light and distributes it evenly over the ground glass. This enables you to focus more critically than ever before! The Ektalite Field Lens supplements the already famous Automatic Diaphragm that allows you to keep the lens wide open until you trip the shutter—then it automatically closes down to your pre-set opening. Two sizes: 3¼x4¼ and 4x5, both with built-in flash synchronization.

Lower-Priced R.B. Series B Graflex Also Has New Ektalite Field Lens

This popularly priced single lens reflex, now will give a brighter image on the ground glass for sharper focusing, better pictures at no added cost! Look into these wonderful Graflex* cameras. Your local dealer will gladly demonstrate.

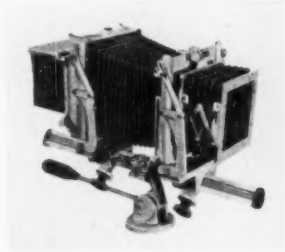
Start Taking Prize-Winners with One of the Famous *Pacemaker* GRAPHICS!

Go in to your Graflex dealer and ask to see one of the prize-winning Pacemaker Graphics. See the Pacemaker SPEED GRAPHIC* with all the many features that have made it the all-time favorite with photographers throughout the world. He'll show you the 2¼x3¼, 3¼x4¼ and 4x5 sizes . . . the focal plane governed shutter speeds from 1/30 to 1/1000. The built-in body release for steadier pictures. The tilt rise and lateral adjustments of the front standard. The ease with which you can focus on ground glass.

See the *Pacemaker* Crown GRAPHIC . . .

that has all the features of the Pacemaker SPEED GRAPHIC but made for those who do not require a focal-plane shutter. Here the front shutter affords you speeds from 1 full second to 1/200, 1/250, or 1/400 depending on size and type of shutter!

Graphic View II Comes to You with 4 New Features



Internationally known, this all-purpose camera now incorporates four new features and comes to you as the improved Graphic View II.* Smooth operating as ever, the Graphic View II is made with new longer bellows draw for extreme close-ups and longer lenses; new four-sided removable focusing hood that cuts out stray light on the ground glass; new front and rear standards with all swings and tilts on optical axis; new "Hammer tone" finish for beauty and durability. Comes in 4x5 and 3¼x4¼ picture sizes. Has a monorail bed that's easiest to operate. Takes every picture from portraits to scientific!

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- Extraordinary light weight.
- Interchangeable reflectors, 5-inch and 7-inch; 5-inch for bayonet base flashbulbs; 7-inch for medium base.
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- Standard household plug connections.
- Smooth, audible click-action main switch.
- Left, right or dual mountings possible.
- Multiple extension tubes available for more battery power.
- Simple push-button photolamp ejection.
- Here is flash to meet your every need!

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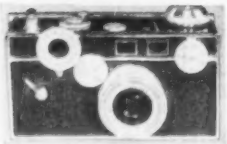
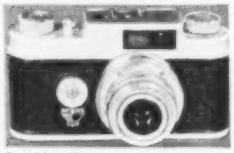
State .....

ARGUS C-3



Cartridge 35 mm; up to 36 exposures 1x1½; 50-mm coated Cintar anastigmat f/3.5 lens; behind-the-lens shutter, 1/10 to 1/300 sec., & B; built-in synchronizer; eye-level finder; coupled rangefinder; exposure counter; film indicator. Price, $59.95 including tax, flash unit, and carrying case. Accessories include slip-on lenses, filters, and lens shade.

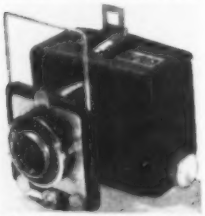
ARGUS MODEL 21



Cartridge 35 mm; up to 36 exposures 1x1½; 50-mm coated Cintar anastigmat f/3.5 lens; behind-the-lens shutter, 1/10 to 1/200 sec., & B.; built-in synchronizer for all flashbulbs at all speeds; eye-level finder; manual and helical focusing; exposure counter; "Markfinder" view-finder, automatic shutter cocking, double exposure and skip frame prevention. Price, $51.75 including tax; carrying case, $8.50. Accessories include slip-on lenses, filters, lens shade and flash extension.

MFR., Argus, Inc.

BACO PRESS CLUB



Sheet film, packs, 2¼x3¼; optional lens equipment; collapsible wire frame type finder; groundglass, scale focusing; camera will take new 8-inch Raptar in Rapax shutter. Price, without lens, $59.50 including tax. Accessories include, interchangeable lenses, slip-on lenses, filters, film adapters, lens shade.

BACO 4x5 DELUXE PRESS VIEW

Sheet film, packs, 4x5; optional lens equipment; 22" bellows extension; fully revolving groundglass back; rising and falling, swinging and tilting lens board. Price less lens, $75; no excise tax. Accessories include various tubular finders; deluxe case which takes 12 - 4x5 holders, flashgun, extra lens, etc., $52.50.

MFR., Baco Accessories Co.

BEACON TWO-TWENTY FIVE

Roll film size 620; 12 exposures, 2¼x2¼; 70-mm coated Doublet f/12.5 lens in reticular-type shutter with I & T speeds; aperture stops down to f/18;

built-in synchronization for Class M lamps; built-in eye-level finder; fixed focus. Price, $14.95 including tax, flash unit and filter-lens—lens shade kit available as accessories.

BEACON II

Roll film size 127; 16 exposures, 1¼x1⅝; 46-mm 2-element color corrected Whitar f/11 lens; all surfaces coated; 2-blade reticular shutter, 1/50 sec. and B speeds; built-in synchronization; eye-level finder; fixed focus. Price, $9.95 including tax. Flash attachment, $4.95; eveready case, $2.50 filter-portrait kit, $4.95.

MFR., Whitehouse Products, Inc.

BEATTIE PORTRONIC A

Automatic portrait-type camera using 70-mm or 35-mm film; 325 70-mm exposures, 2¼x3⅛ or 650 35-mm exposures, 1¼x1⅝; coated 6½-inch Wollensak Raptar f/6.3 lens in barrel mount; electric shutter set at 1/55

sec.; built-in synchronization; 1½-inch bellows; optical eye-level finder; focusing, manual or with groundglass back; magazine loading; automatic identification device. Price, $690 including tax; case, $35.

MFR., Photographic Products Inc.

BLOC METAL 45

Roll film size 620; 8 exposures, 2¼x3¼; folding-type camera; 105-mm coated Berthoit f/4.5 anastigmat lens in Prontor Compur shutter, speeds from 1 sec. to 1/200 sec., T & B; delayed action; built-in synchronization; depth of field scale; eye-level finder; manual focusing; cable-release lock. Price, with leather eveready sheath, $60. Accessories include interchangeable lens, slip-on lenses, filters, etc.

DIST., General Photographic Supply Co.

BOLSEY MODEL B

Cartridge 35 mm; up to 39 exposures, 24x36 mm; coated 44-mm f/3.2 Wollensak Anastigmat lens; depth-of-field scale; Wollensak 3-blade shutter, speeds from 1/10 to 1/200 sec., T & B; eye-level finder; exposure counter; scale and helical focusing; coupled rangefinder with two windows for range- and viewfinder; extremely small and compact. Price, $55.90 including tax; eveready case, $7.25. Accessories include slip-on lenses, filters, flashgun and synchronizer.

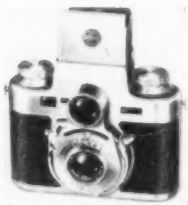
BOLSEY MODEL B2

Identical to Model B in appearance and equipment; added features include a double-exposure-prevention device, synchronized shutter with internal wiring in the camera; depth-of-field scale, and a film-type indicator. Price, $66.90 including tax; eveready case, $7.25.

BOLSEY B SPECIAL

Identical to the Bolsey B except that the lens has a removable bayonet mount for interchanging lenses. Price, $64.50 including tax. Same accessories available.

BOLSEY MODEL C



Cartridge 35 mm; up to 36 exposures, 24x36 mm; 44-mm coated f/3.2 Wollensak Anastigmat lens; depth of field scale; 2-lens reflex camera; Wollensak shutter, speeds from 1/10 sec. to 1/200 sec., T & B; synchronized shutter with internal wiring in camera; reflex focusing and helical focusing; coupled rangefinder; two windows for range- and viewfinder; double exposure prevention device; exposure counter; depth-of-field scale; film speed indicator; film-type indicator. Price, $99.50 including tax; eveready case, $9.50.

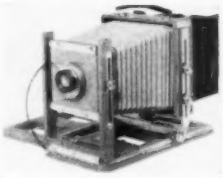
DIST., Bolsey Corp. of America.

CLASSIC 35

Cartridge 35 mm; up to 72 exposures, single-frame 35 mm; 32-mm coated f/4.5 Anastigmat lens; between-the-lens shutter with 1/50 sec. shutter speed; cable release socket for T exposures; arranged for synchronized flash; eye-level finder; fixed focus; film winder cocks shutter preventing double exposures; exposure counter with magnifying glass; exposure guide; lens cover; shutter release flush on body; cannot be operated when lens barrel is retracted. Price, $29.50 plus tax.

MFR. Craftmen's Guild

B&J COMMERCIAL VIEW 4x5



Sheet film, packs, 4x5; optional lens and shutter equipment; 20" bellows extension; reversible wood back; rack-and-pinion focusing; double extension bellows; calibrated groundglass with four-sided focusing hood; 5¼x5¼" lens board. Price, less lens, $64.50, deluxe case, $10.95. Accessories include reducing back.

B&J COMMERCIAL VIEW 5x7

Similar to above with same adjustments in all planes; 21" bellows extension. Price, less lens, $74.50; case, $10.95.

B&J COMMERCIAL VIEW 8x10

Similar to above with same adjustments in all planes; 28" bellows extension; 6x6" lens board. Price, less lens, $99.50; case, $15.95.

B&J SPEED PRESS 2¼x3¼

Sheet film, packs, 2¼x3¼; optional lens equipment; 8¼" bellows; double extension; parallax-correcting eye-level finder; swings and tilts on lens board; drop bed; calibrated groundglass with four-sided focusing hood; revolving back. Price, less lens, $69.50; deluxe case, $16.95. Accessories

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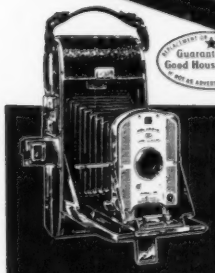
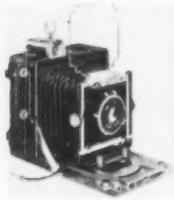


POLAROID *Land** CAMERA

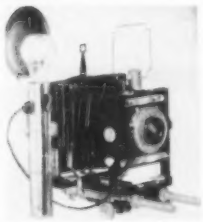
include rangefinder, flash equipment, interchangeable lenses, filters.

B&J SPEED PRESS 4x5



Sheet film, packs, 4x5; optional lens equipment; 13" bellows extension; eye-level finder; revolving back; track lock; all-metal body; all swings and tilts on lens board; drop bed; calibrated groundglass with four-sided focusing hood; focusing scale; 4x5" lens board. Price, less lens, $69.50. Same accessories available as above; price of case the same.
MFR., Burke & James, Inc.

BRAND 17 4x5 UNIVERSAL CAMERA



Sheet film, packs, choice of 4x5, 3¼x4¼, or 2¼x3¼ backs; also 4x5 dividing back; optional lens equipment; takes focal lengths from 3½ to 17 inches; magnesium construction; 17" bellows extension; collapsible wire frame-type finder; front and back swing, rise, tilt; drop bed; scale focusing; revolving groundglass back. Price, with split 4x5 Graphic-type dividing back, $105 less lens. Price, with Graflex-type back, $97.50; with Graphic-type back, $95. Accessories: interchangeable lenses, filters, rangefinder, flash, case.
MFR., Brand Camera Co.

BROWNIE FLASH SIX-20 MODEL

Roll film size 620; 8 exposures, 2¼x3¼; meniscus lens; two-position focusing, I & B shutter speeds; enclosed eye-level finder; built-in synchronization. Price, with Flashholder unit, $14.67; without Flashholder unit, $11.75. Tax included in both prices. Close-up attachment available.

BROWNIE REFLEX—SYNCHRO MODEL

Roll film size 127; 12 exposures, 1⅝x1⅝; meniscus lens; I & B shutter speeds; built-in synchronization; fixed

focus; reflex finder. Price, $10.95 including tax; Flasholder, $4.03 including tax.

BROWNIE TARGET, Six-20 and Six-16

Six-20 models take roll film size 620, 8 exposures, 2¼x3¼; Six-16 models take roll film size 616, 8 exposures, 2½x4½; meniscus lens, single-action shutter; I & B; waist-level finder; fixed focus. Price, Six-20 model, $5.75 including tax; Six-16 model, $6.95 including tax.

BROWNIE HAWKEYE

Roll film size 620; 12 exposures, 2¼x2¼; 9 exposures on Kodacolor film; 81-mm fixed-focus f/15 lens; I & B shutter settings; shutter release bar

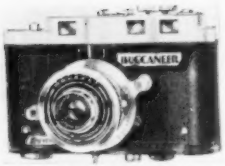
flush with body; waist-level, reflex-type finder. Price, $5.50 including tax. Accessories include close-up attachment and Kodak Photo Flasher.

BABY BROWNIE SPECIAL

Roll film size 127; 8 exposures, 1⅝x2½; meniscus lens, instantaneous; fixed focus; enclosed eye-level finder; body-type plunger. Price, $2.75 including tax. Close-up attachment available as accessory.
MFR., Eastman Kodak Co.

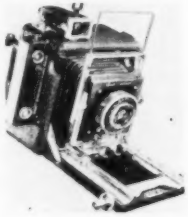
BUCCANEER

Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm coated anastigmat triplet f/3.5 lens; between-the-lens shutter with speeds from 1/10 to 1/300 sec., T & B; built-in synchronization; exposure counter; exposure guide; built-in extinction-type exposure meter; coupled rangefinder; Film minder. Price, $65 including



tax; eveready case, $7.25. Accessories include filter, etc.
MFR., Universal Camera Corp.

BUSCH PRESSMAN C



Sheet film, pack, 2¼x3¼; lens equipment optional; 9" bellows; eye-level and collapsible wire frame type finders; groundglass and scale focusing. Takes all standard press camera accessories. Price, less lens, $73.40. Professional case, $36.50.

BUSCH 4x5 PRESSMAN D

Sheet film 4x5, pack 4x5 or 3¼x4¼; compact, all-metal box; available with 127-mm coated Kodak Ektar f/4.7 lens; or 135-mm coated Wollensak Raptar f/4.5 lens in 3 models of Supermatic or Rapax shutters; shutters have built-in syn-

chronization; double extension bellows taper to lens mount; eye-level finder and collapsible wire frame finder with parallax correction on rear sight; groundglass back; manual and scale focusing; coupled rangefinder; combined rangefinder-viewfinder with automatic parallax compensator and electrical focusing beam; revolving back; focusing magnifier; adjustable infinity stops for interchangeable lenses. Price, $89.50, less lens.
MFR., Busch Precision Camera Co.

CANON II

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Serenar Anastigmat f/3.5 lens; depth of field scale; focal-plane shutter with speeds from 1 to 1/500 sec., B; built-in eye-level finder; helical focusing; coupled rangefinder with 1 window for range- and viewfinder; film counter; accessory clip. Price, $168.50 including tax; eveready case, $10.50.

CANON IIB

Identical to Model II except that it is equipped with a coated 50-mm Serenar Anastigmat f/1.9 lens and has a built-in magnifier for focusing. Price, $249. Accessories for the Canon include interchangeable lenses, etc.
DIST., C. R. Skinner Mfg. Co.

CENTURY MASTER STUDIO OUTFIT

Portrait studio camera complete with stand; sheet film, 5x7, and 8x10 sizes; 9x9" lens board; groundglass back; 1 - 8x10 holder; 1 - 5x7 holder; "two on" 8x10 and "two on" 5x7 winged kits; vertical and horizontal swings; two built-in compartments for film holders; slide groundglass carriage; 8x10 reversible adapter; 5x7 reversible adapter back. Price, $390.
MFR., Eastman Kodak Co.

CIRO-FLEX B

Roll film size 120; 12 exposures, 2¼x2¼; 2-lens reflex; 85-mm coated Wollensak Velostigmat f/3.5 lens; depth of field scale; Alphax shutter, speeds from 1/10 to 1/200 sec., T & B; reflex and scale focusing; eye-level viewfinder. Price, $76.98 including tax; eveready case, $8.50.

CIRO-FLEX C

Roll film size 120; 12 exposures, 2¼x2¼; 2-lens reflex; 85-mm coated Wollensak Velostigmat f/3.5 lens; depth of field scale; Rapax shutter, speeds from 1 to 1/400 sec., T & B; reflex and scale focusing; eye-level finder. Price, $99.45 including tax; eveready case, $8.50.

CIRO-FLEX D

Similar to Model C; equipped with Synchromatic Alphax shutter with speeds from 1/10 to 1/200 sec., T & B; built-in synchronization for Class F & M lamps. Price, $83.50 including tax.

CIRO-FLEX E

Similar to Model D; equipped with coated 85-mm Wollensak Raptar f/3.5 lens in Rapax shutter with speeds from 1 to 1/400 sec., T & B; built-in synchronization for Class F & M lamps. Price, $113.70 including tax.

CIRO-FLEX F

Similar to Model E; equipped with coated 85-mm Wollensak Raptar f/3.2 lens in Rapax shutter with speeds from 1 to 1/400 sec., T & M; built-in synchronization for all lamps including electronic flash. Price, $148.75 including tax. Complete line of ac-

cessories for all Ciro-flex cameras.

CIRO 35R

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Wollensak Anastigmat f/4.5 lens in Alphax shutter with speeds from 1/10 to 1/200 sec., T & B; built-in synchronization for Class F & M lamps; built-in eye-

level finder; scale focusing; coupled rangefinder; film counter; accessory clip. Price, $49.50 including tax; eveready case, $7.50.

CIRO 35S

Identical to Model R except is equipped with coated 50-mm Wollensak Anastigmat f/3.5 lens. Price, $59.50.

CIRO 35T

Similar to Model S; equipped with coated 50-mm Wollensak Anastigmat f/2.8 lens in Rapax shutter with speeds from 1 to 1/400 sec., T & B. Price, $98.50 including tax.

MFR., Ciro Cameras, Inc.

CLARUS MS35

Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm coated Wollensak Velostigmat f/2.8 lens; depth of field scale; focal-plane shutter, speeds from 1/25 to 1/1000 sec. & B; built-in synchronization; built-in viewfinder; helical focusing; coupled rangefinder; exposure counter; hyperfocal distance table; depth of field guide; accessory shoe clip. Price, $116.25 including tax; with Wollensak Velostigmat f/2 lens, $168.50; eveready case, $7.50; wide angle & telephoto lenses available as accessories.

MFR., Clarus Camera Mfg. Co.

CONDOR I

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 2-inch Eliog f/3.5 lens in Iscus shutter with speeds from 1 to 1/500 sec., B; depth of field scale; built-in synchronization for Class F & M lamps; eye-level finder; body release; coupled rangefinder; exposure counter; depth of field guide; eye adjustment for rangefinder. Price, $93 including tax; eveready case, $7.50.

DIST., Director Products Corp.

CONTAX IIA

Improved, more compact 1950 model of Contax II; cartridge or spool 35 mm; up to 36 exposures, 1x1½; adaptable to sheet film; bayonet-type lens mount; metal focal-plane shutter with speeds from ½ to 1/1250 sec., B; built-in self timer for 3, 6, 9, and 12-sec. delay; built-in synchronization; film-type indicator; automatic film transport; exposure coun-

ter; coupled single-window-type rangefinder; depth of focus guide; tripod socket is now integral part of camera body; made by Zeiss Ikon in the American Zone. Price, with coated 50-mm Sonnar f/2 lens, $385; with coated 50-mm Sonnar f/1.5 lens, $460; case, $12. Complete line of accessories available.

DIST., Carl Zeiss, Inc.

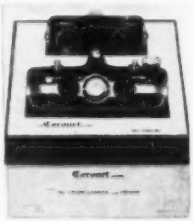
CONTAX MODEL S

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 58-mm Zeiss Biotar f/2 lens; focal-plane shutter with speeds from 1 to 1/1000 sec.; built-in synchronization; single-lens reflex-type miniature with prismatic eye-level finder; built-in sportsfinder; depth of field guide on lens barrel; direct, through-the-lens focusing with non-reversing view. Price, $475 including tax; eveready case, $17.50. Full line of accessories available.

DIST., Ercona Camera Corp.

CORONET TRIVISION STEREO

Roll film size 828; 6 sets of stereo exposures, or 12 regular exposures;



54-mm meniscus f/8 lens; 1/50 second shutter speed, and T; built-in synchronization; eye-level finder; fixed focus; 6 stereo holders. Price, $22.95 including tax; case $4.95.

MFR., James V. Keys.

CRUISER 63

Roll film size 120; 8 exposures, 2¼x 3¼; coated 4¼-inch Anastigmat f/6.3 lens in Vario shutter with speeds from 1/25 to 1/125 sec., T & B; built-in synchronization for Class F, M, & S

lamps; eye-level and waist-level finders; manual focusing. Price, $29.95 including tax; eveready case, $5.50.

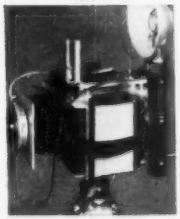
MFR., Cruiser Camera Co.

CURTIS COLOR-SCOUT 4x5

Color camera 1-shot; 2-mirror type; negative size, 4x5; takes sheet or filmpacks; optional lens equipment (8½-inch lens recommended);

groundglass back; precision viewfinder. Price, including a set of sheet-film holders, $300. Accessories available include coupled rangefinder, flash, etc.

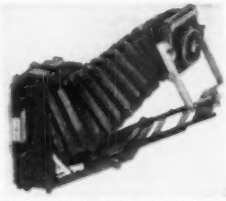
CURTIS COLOR-SCOUT 48



Color camera, two mirror type; negative size 2¼x3¼; film packs or sheet film in special-built holders; film held in register by filter; 7½-inch Iiex Paragon f/4.5 coated lens; Iiex Synchro shutter, speeds from 1 to 1/200 sec., T & B; direct-vision viewfinder; groundglass back; coupled rangefinder; Flash equipment; film pack magazines. Price, $595.

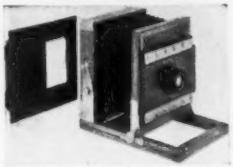
MFR., Curtis Laboratories, Inc.

DEARDORFF UNIVERSAL TRIAMAPRO 4x5



Plates, sheet film, filmpack, or adaptable to roll film with holders; supplied with standard spring backs; can be adapted to all synchronous flash and rangefinder equipment; 19-inch bellows; triple extension; lens board rises, lowers, swings vertically and horizontally; double sliding front standard; camera bed rises, lowers, drops completely for wide-angle lenses; separate double extension wide-angle track; metal revolving back; peep sight and wire finder. Price upon request. Fitted case available.

DEARDORFF 5x7 HOME PORTRAIT

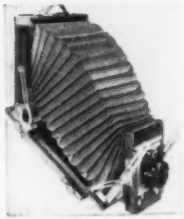


Sheet film or filmpacks; 5x7 or 3½x5 sizes; maximum bellows extension, 12¼; groundglass back; hard maple construction; outside lever controls removable divider board; intended for 7 or 9-inch lens; lens board slides to center lens on 3½x5. Price, $135.

DEARDORFF PRECISION STUDIO

Sheet film, filmpacks; made in 8x10 and 11x14 sizes; removable bellows sections; maximum bellows of 8x10 model, 50"; 11x14 model, 75"; full swings, tilts, and rises. Prices range from $546 to $822. Accessories include reducing, revolving, and dividing backs, Packard shutter adapters, inverted cones, and studio stands.

DEARDORFF PRECISION VIEW 4x5, 5x7, 8x10



All similarly built except for size; 18" bellows extension on 4x5, 24" on 5x7, and 30" on 8x10 model. Prices, without lens equipment, 4x5 model, $174; 5x7 model, $180; 8x10 model, $300. No federal tax applicable. Available as accessories are carrying cases, reducing, dividing backs, extra lensboards, Packard shutter adapters.

MFR., L. F. Deardorff & Sons.

DELTA

Roll film size 120; 8 exposures 2¼x 3¼; folding type; eye-level and waist-level finders; built-in flash synchronization; color corrected lens; fixed focus; flash attachment; carrying case or gadget bag. Price, $19.95.

DIST., Wilsons.

DEVIN COLOR CAMERA

One-shot tri-color, 5x7; metal construction; rise, fall, swing, and tilt front; two pellicle mirrors; groundglass focusing; full 20" extension bellows; takes 5x7 sheet film; optional lens equipment (12-inch lens recommended); release action of plate gives absolute register. Price on request.

MFR., Bob Frazer.

DOVER DUAL LENS FLASH 620A

Roll film size 620; 16 exposures, 1⅝x 2¼; Somco meniscus lens; f/stop and shutter speed synchronized, using 5 lens apertures according to exposure chart on camera; dual lens mount with portrait-type lens and filter included; eye-level finder; built-in synchronization; case included. Price, $11.45.
MFR., Dover Film Corp.

EAGLE EYE 120

Roll film size 120; 8 exposures, 2¼x 3¼; 110-mm Zellar lens; Pho-Tak shutter with I & T shutter settings; plunger-type release; eye-level finder; safety lock on back; all-metal construction. Price, $4.95.
MFR., Pho-Tak Corp.

EASTMAN VIEW 33A

Sheet film, packs, 5x7; optional lens equipment; 13" bellows extension; groundglass back; 1 Kodak film holder; 1 film-pack adapter; rising and falling front; horizontal and vertical swing back; reversible back; cut-off board for two exposures on one 5x7 film. Price, $75; case $12. Complete accessories available.
MFR., Eastman Kodak Co.

ELMO FLEX III-B

Roll film size 120; 12 exposures, 2¼x 2¼; coated 75-mm Zuiko f/3.5 taking lens and Zuiko f/3.5 viewing lens; Seikosha-Rapid shutter with speeds from 1 to 1/500 sec., B; eye-level finder; reflex focusing; depth of field scale; exposure counter; automatic stop film winding; tripod socket; case. Price, $135.

EPOCHS

Sub-miniature using special roll-film size; 10 exposures, 14x14 mm; daylight loading rolls; 20-mm Talent lens with fixed diaphragm opening; shutter speeds, 1/25, 1/50, B; built-in eye-level finder; weighs ¼ pound. Price, with case, $9.75.
DIST., General Photographic Supply Co.

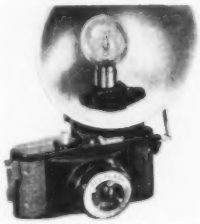
ERCONA

Roll film size 120; 8 exposures, 2¼x 3¼; coated 110-mm Novar anastigmat f/4.5 lens in Prontor II shutter with speeds from 1 to 1/200 sec., B; built-in synchronization; eye-level finder; socket for waist-level finder; double exposure prevention device; body-type shutter release. Price on request.
DIST., Ercona Camera Corp.

ETARETA CANDID

Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm Etar f/3.5 lens; Etaxa shutter with speeds from 1/10 to 1/200 sec., T & B; lens and shutter in collapsible tube with bayonet lock; built-in eye-level finder adjustable to user's eye; automatic film transport and counter; eveready case. Price, $69 including tax. Accessories include lens shade, filters, etc.
DIST., American Equipment Co.

FED-FLASH

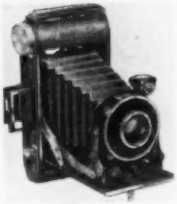


Roll film size 127; 8 exposures, 1⅝x2½; 64-mm achromatic meniscus f/15 lens; Federal Flash-matic shutter with 1/40 sec. speed; built-in synchronization; fixed-focus; eye-level finder. Price of camera, $7.95 including tax; flash unit available as accessory for $2.95 including tax.
MFR., Federal Mfg. & Eng. Corp.

FLEXARET III

Roll film size 120; 12 exposures, 2¼x 2¼; coated 80-mm Mirar f/3.5 taking lens; f/3 viewing lens; Prontor II shutter with speeds from 1 to 1/200 sec., T & B; waist-level and eye-level finder; built-in magnifier; reflex focusing; automatic film transport; automatic lever with folding handle; automatic film counter. Price, including eveready case, $79 including tax. Accessories include filters, close-up lenses, lens shade, etc.
DIST., American Equipment Co.

FIXFOCUS

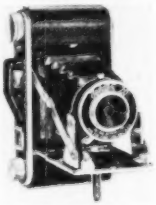


Roll film size 120; 8 exposures 2¼x 3¼; coated 105-mm Victar anastigmat f/4.5 lens in Junior shutter with speeds from 1/25 to 1/100 sec., T & B; built-in flash synchronization; eye-level and waist-level finder; body release. Price, $34.50 including tax.
DIST., Ercona Camera Corp.

FOCA

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Oplar f/1.9 lens; interchangeable; focal-plane shutter synchronized with film transport; speeds from 1 to 1/1000 sec.; depth of field scale; built-in eye-level finder; couple, single-window-type rangefinder; removable back; built-in synchronization; collapsible lens; automatic exposure counter; accessory clip. Price, $295; eveready case, $10.50. Accessories include 5-objective prismatic viewfinder, filters, portrait lenses, lens shade, 35-mm Oplar f/3.5 wide-angle lens, 90-mm Oplar f/3.5 lens, and 135-mm Oplar f/4.5 long-focus lens.
DIST., Dowlings, Inc.

FOLDEX 120



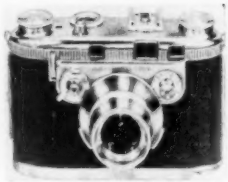
Roll film size 120 or 620; 8 exposures, 2¼x3¼; 105-mm Octvar lens; built-in eye-level viewfinder; shutter speeds, 1/50, B; built-in synchronization; accessory clip for flash unit; body release. Price, $16.75 including tax; case, $3.50; flash attachment, $3.50.
MFR., Pho-Tak Corp.

FOTO-ROLL 600

View camera using non-perforated 100-foot rolls of 70-mm film; 350 to 600 exposures, 1¾x2¼ or 2¼x3¼; groundglass back; magazine on back of camera slides up for groundglass focusing; film knob advance; resettable counter to record exposures. Price, less lens, $80.50 including tax.
MFR., Gundlach Mfg. Corp.

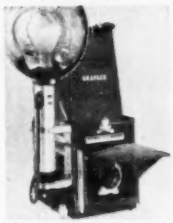
FOTON

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 2-inch TH Amotal T-2.2 lens; screw mount; depth of field scale; focal-plane shutter with speeds from 1 to 1/1000 sec., T & B; built-in synchronization; built-in eye-level finder; coupled rangefinder; built-in filter adapter; exposure counter;



depth of field scale; exposure guide for flash gun; automatic film advance, either single exposure or rapid sequence, 11 shutter speeds; dichroic beam splitter. Price, $498 including tax; case, $22.50 and $32.50.
MFR., Bell & Howell Co.

SUPER D GRAFLEX-REVOLVING BACK



Sheet film, packs, 3¼x4¼, 4x5; single-lens reflex camera; features interchangeable film attachments and lensboards; focal-plane shutter with speeds from 1/30 to 1/1000 sec., T; built-in synchronization; automatic diaphragm; Ektalite Field lens; film-pack adapter included. Price of 4x5 model with coated 2½-inch Ektar f/5.6 lens in automatic diaphragm, $209 including tax; 3¼x4¼ model with coated 6-inch f/4.5 lens in automatic diaphragm, $199 including tax. Accessories include case, lenses, filters, film attachments, flash unit, focusing panel, and lens shade.

SERIES B GRAFLEX-REVOLVING BACK

Sheet film, packs, 2¼x3¼; single-lens reflex camera; features interchangeable film attachments; focal-plane shutter with speeds from 1/10 to 1/1000 sec., T; Ektalite Field lens and film-pack adapter. Price, $124.50. Accessories include lenses, flash unit, and film accessories.

CENTURY GRAPHIC

Sheet film, packs, 2¼x3¼; coated 103-mm Trioptar Anastigmat f/4.5 lens; Century self-setting shutter with speeds from 1/10 to 1/200 sec., T & B; built-in synchronization; collapsible wire frame finder; manual, scale, and groundglass focusing; film holder included; Graflok back; folding infinity

POWDER BATTERIES and NOW—

Amazing new electronic development revolutionizes science of flash photography . . . *

NEW BUSCH B-C SYNCHRONIZER

$17.25

less batteries, reflector and bracket.

***HOW THE B-C (BATTERY CAPACITOR) SYSTEM WORKS**

OLD: *Battery to bulb.*

In the old method, battery is drained of charge when flashbulb is fired. Due to high internal resistance of battery, synchronization is affected when batteries are weak or bulbs are fired in multiple.

NEW: *Battery to capacitor to bulb.*

The new Busch "B-C" Synchronizer employs a capacitor to store energy *between* shots. Complete charging is much faster than time required to change bulbs. When bulb is fired, you always get a lightning surge of full power and perfect synchronization.

LIFETIME GUARANTEE

Busch B-C Synchronizer, less batteries, capacitor, and other expendable parts, is guaranteed for life against defective workmanship or materials.

*

Busch introduces a new electronic miracle — The Busch B-C Synchronizer that obsoletes present methods of flash photography! Now you can enjoy the superior benefits of a battery-capacitor type circuit . . . get results in brilliant color and sharp black and white far beyond the capabilities of outmoded conventional units.

★ **Uniform results.** Never a variance in light peaks to affect synchronization. Perfect for color photography.

★ **Greater dependability.** You get the picture every time. Capacitor, not the battery, fires the bulb.

★ **Tremendous store of power.** Capacitor reacts with terrific force, permits operation of a solenoid on even the stiffest of shutters.

★ **Extra versatility.** Forget about clumsy, heavy extension tubing. Busch "B-C" capacitor gives you the power to fire several bulbs on long lengths of wire in perfect synchronization.

★ **Perfect synchronization.** Under all weather conditions with solenoid or "synchro" shutter.

★ **Lighter weight.** Easier to carry and use. Synchronizer case is fully insulated from circuit — Short-proof.

★ **Wonderful economy.** Uses only one small battery in B-C circuit. Battery has far longer life (thousands of shots without a change), and spares fit any pocket.

★ **Fits all cameras.** One "B-C" Synchronizer serves all your camera needs. Visit your Busch dealer now for a free demonstration.

ONE TINY BATTERY!

This mighty mite packs **15 times** the voltage of conventional flash gun batteries. Plastic jacket makes it leakproof. No need to carry spares—it's good for up to one year and thousands of shots!

Busch "B-C" Synchronizer Accessories

Busch-Flex 6" Focusing Reflector for Bayonet Base Bulbs **$8.05**

Busch 6" Dynar Reflector for Std. Screw Base Bulbs **$5.75**

Busch Dynar Solenoid, Choice of Two Models **$10.58**

BUSCH PRECISION CAMERA CORPORATION, 411 S. Sangamon St., Chicago 7, Illinois

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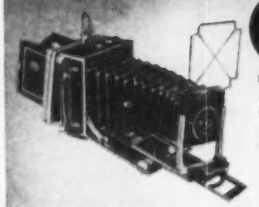
A PEERLESS FIRST!

BRAND NEW 4 x 5



Linhof TECHNIKA III

Unequalled in beauty, quality and versatility. The LINHOF can do the work for which you normally need a candid, press and view camera, and at a price so low, it will amaze you!

- Back swings, tilts, revolves and takes Graphic type film holders.
- Lens is interchangeable.
- Front lens standard tilts, swings, rises, drops and shifts laterally.
- Triple extension bellows.
- All metal body, leather covered.
- Compact and lightweight.

PEERLESS, exclusive Linhof distributor for the entire United States, sets a NEW LOW PRICE on this jewel of a camera.

LINHOF TECHNIKA III Camera only **$169.50**

LINHOF TECHNIKA III Camera with the new MULTI-FOCUS RANGEFINDER that couples to several lenses at the same time, coupled to 135mm f4.7 Coated Raptar Lens in Rapax Shutter AND 90mm f6.8 Coated Schneider Angulon Wide Angle Lens in Compur Rapid Shutter **$199.50**

LINHOF TECHNIKA III E Camera with the new MULTI-FOCUS RANGEFINDER that couples to several lenses at the same time, coupled to 135mm f4.7 Coated Raptar Lens in Rapax Shutter AND 90mm f6.8 Coated Schneider Angulon Wide Angle Lens in Compur Rapid Shutter **$319.00**

Shpg. Wt. 9 lbs.

WRITE FOR FREE DESCRIPTIVE FOLDER

YOU SAVE $39.13

Latest Model

ARGUS C3 35mm FLASH OUTFIT

- f3.5 Coated Lens
- Coupled Rangefinder
- Built-in Flash Synchronization and Flashgun
- EVEREADY CASE

YOUR COST **39.95** used

Shp. Wt. 5 lbs.

Brand New Latest Model

KINE EXAKTA II

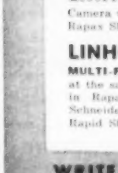
35mm Single Lens Reflex

- Speeds 12 seconds to 1/1000
- Built-in Flash Synchronization
- Many More Exclusive Features

With "T" Coated f3.5 Zeiss Tessar Lens **118.00**

With "T" Coated f2 Zeiss Biotar Lens **169.50**

YOU SAVE $12.61



Brand New Famous Make

2¼ x 3¼ ENLARGER

With 3½" f4.5 Coated Lens

Takes all negatives from 35mm to 2¼x3¼ and has features found in enlargers selling for much more.

List Price $46.50

YOUR COST **33.89**

Shp. Wt. 28 lbs.

Latest 1950 Model

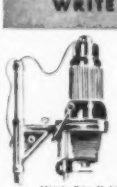
KODAK Model IIB FLASH RETINA with FLASHGUN

- Built-in Flash Synchronization
- f2 Coated Heliogon Lens in Compur Rapid Shutter
- Single Window View and Coupled Rangefinder

List Price $199.00

YOUR COST **109.50** used

YOU SAVE $56.50



2¼ x 3¼ BUSCH PRESS OUTFIT

- f4.5 Coated Lens
- Kalart Coupled Rangefinder
- Synchronized Flashgun

YOUR COST **99.50** used

Shp. Wt. 10 lbs.

YOU SAVE $97.46

Latest Model 4 x 5 Pacemaker

CROWN GRAPHIC PRESS OUTFIT

List Price $247.35

YOUR COST **149.95** used

Shp. Wt. 16 lbs.

- f4.7 Coated Optar Lens
- Rapax Shutter
- Kalart Coupled Rangefinder
- Synchro Flashgun

YOU SAVE $5.20

Brand New

DEJUR 5B

Photo-Electric EXPOSURE METER with Case

List $15.15

YOUR COST **9.95**

35mm CAMERAS

Agfa Karat II, f2.8 Xenar, cpld., R.F.	$ 44.50
Argus A, f4.5 Anastigmat	9.95
Argus A2, built-in exposure meter	13.50
Argus 21, f3.5, flash shutter	29.50
Bolsey, f3.2 ctd., cpld., R.F.	32.00
Bolsey B2, f3.2 ctd., cpld., R.F.—flash	49.95
Clarus, f2.8, cpld., R.F.	54.95
Jubilette, f2.9 Cryspon lens	29.50
Kodak 35, f5.6 Anastigmat	19.95
Kodak 35, f4.5 Anastigmat	27.00
Kodak 35, f4.5 Rangefinder	44.00
Kodak Bantam, f4.5 Anastigmat	24.95
Kodak Flash Bantam, f4.5 ctd.	34.95
Kodak Bantam Special, f2, R.F.	85.00
Kodak Retina, f3.5, Compur	29.95
Kodak Retina Ia, f3.5, chrome	49.95
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Kodak Retina II, f2.8, R.F. Chrome	79.50
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Perfex 22, f3.5 lens, R.F.	19.95
Perfex 55, f2.8, R.F.	35.00
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Zeiss Tenax I, f3.5, Compur	37.00
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Leica IIIB, f2 Summitar	194.50
Leica IIIC, f2 Summitar	189.00
Leica IIIC, f1.5 Zeiss Sonnar	274.00
Contax I, f3.5 Tessar	69.00
Contax I, f2.8 Tessar	82.00
Contax I, f2 Sonnar	99.95
Contax II, f2 Sonnar	149.50
Contax II, f1.5 Sonnar	194.95
Contax III, f1.5 Sonnar	225.00

REFLEX CAMERAS

Ansco Reflex, f3.5 coated	$ 39.50
Ciroflex, f4.5 Anastigmat	32.50
Ciroflex, f3.5 Alphax Shutter	47.50
Ciroflex, f3.5 Rapax Shutter	59.50
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Kodak Reflex II, f3.5, Ektalite	119.95
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3¼x4¼ Graflex B, B.H., f4.5 Kodak	59.50
4x5 Graflex B, B.H., f4.5 Kodak	69.50
2¼x3¼ Graflex B, B.H., f4.5 Kodak	52.50
3¼x4¼ Graflex B, B.H., f4.5 Kodak	49.95
3¼x4¼ Graflex C, B.H., f4.5 Tessar	59.95
3¼x4¼ Graflex C, B.H., high-speed f2.5 Taylor Hobson Cooke lens	$ 99.50
3¼x4¼ Graflex D, B.H., f4.5 lens	52.95
3¼x4¼ Graflex Super D, B.H., f4.5 coated Ektar, auto-diaphragm, built-in flash synchronization	125.00
4x5 Graflex Super D, B.H., f4.5 coated Ektar, auto-diaphragm, built-in flash synchronization	139.00

ROLL FILM CAMERAS

Ansco Speedex, f4.5 Anastigmat	$ 29.50
Baldaxette 120, f2.9 cpld. R.F.	48.95
Kodak Medalist, f3.5 ctd. Ektar	99.00
Kodak Medalist II, f3.5 ctd. Ektar synchronized flash shutter	165.00
Kodak Senior 616, f4.5 Anastigmat	29.50
Kodak Special 616, f4.5 Anastigmat	34.50
Kodak Vigilant 620, 2¼x3¼, f6.8	21.95
Kodak Vigilant 620, 2¼x3¼, f6.3	22.50
Kodak Vigilant 620, 2¼x3¼, f4.5	25.00
Kodak Monitor 620, 2¼x3¼, f4.5 ctd. W flash shutter	49.50
Kodak Tourist 620, 2¼x3¼, f4.5 ctd.	49.50
Kodak Vollenda 127, f3.5 Tessar	29.95
Kodak Pupille 127, f3.5 Compur	34.50
Polaroid Land, 1-minute camera	55.00
Plaubel Rollop, 2¼x2¼, f2.9 Anticomar, cpld. rangefinder	58.95
Voigtlander Bessa, 2¼x3¼, f4.5, cpld. rangefinder	29.95
Voigtlander Bessa, 2¼x3¼, f3.5, cpld. rangefinder	69.50
Voigtlander Baby Bessa 66, f3.5, Weltur, f2.9 Radionar, Coupled Rangefinder	47.50
	69.50

PRESS CAMERAS

2¼x3¼ Speed Graphic, f4.5 Kodak Anastigmat, Kalart R.F.	$ 98.95
2¼x3¼ Busch Pressman, f4.5, Coated, Kalart R.F., Flashgun, complete	99.50
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2¼x3¼ Pacemaker Speed Graphic, ctd. Ektar, Synchro Shutter, Flashgun	174.95
3¼x4¼ Speed Graphic, 127mm, f4.7 Ektar, Supermatic, Rangefinder	89.50
3¼x4¼ Speed Graphic, 127mm, f4.7 Ektar, 22 Supermatic Shutter, Kalart R.F. and Tripod	124.95
4x5 Speed Graphic, f4.7 Wollensak Kalart R.F., Solenoid	128.95
4x5 Pacemaker Crown Graphic, f4.7 ctd. X shutter	129.95
4x5 Pacemaker Speed Graphic, f4.7 ctd. X shutter	159.95
4x5 Pacemaker Speed Graphic, 127mm, f4.7 ctd. Ektar, Supermatic X shutter, Kalart R.F., flash with solenoid, COMPLETE	189.95

FILM PACK CAMERAS

Kodak Recomar, f4.5 Kodak double extension, Compur shutter, film pack adapter, 3 C.F. holders 6x9—9x12	$ 49.50
Voigtlander, f4.5 Skopar, double extension, Compur shutter, film pack adapter, 3 C.F. holders 6x9—9x12	58.95
Film Pack Camera, f4.5 Compur shutter, ctd. extension, film pack adapter, 3 C.F. holders 6x9—9x12	44.95
	49.95
	39.95
	42.95

EXPOSURE METERS

DeJur Model 5B	$ 6.95
DeJur Critic 50	8.95
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General Electric DW-58	12.95
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Norwood Director	19.95
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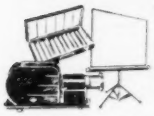

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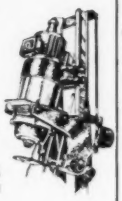
Brand New 2x2 SLIDE PROJECTOR OUTFIT

- FAMOUS MAKE (35mm and Bantam) 100 Watt Slide Projector with Slide Carrier
- 40x40 Crystal Beaded Tripod Screen
- All Metal Slide File for 150 Glass Slides or 300 Readymount.

List Price $37.25

YOUR COST **18.89** Shpg. Wt. 18 lbs.

OMEGA D2 4x5 Enlarger Outfit

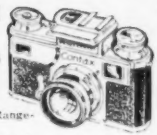


with 5¼" f4.5 Enlarging Lens.

YOUR COST **149.98** used

Shp. Wt. 50 lbs.

CONTAX III with f2 Zeiss Sonnar Lens

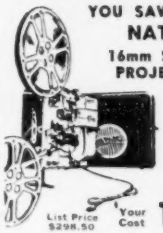


- Coupled Rangefinder
- Speeds ½ sec. to 1/1250
- Built-in photoelectric Exposure Meter

YOUR COST **179.50** used

Shp. Wt. 5 lbs.

YOU SAVE $119.00
NATCO 16mm SOUND PROJECTOR



- Lightweight, All-in-one case
- Sound and Silent speeds
- 750 Watt Lamp
- 2" f1.6 Coated Lens

List Price $298.50 Your Cost **179.50** used

Shp. Wt. 45 lbs.

8mm CINE CAMERAS

Bell & Howell Companion, f4.5	$ 49.95
B&H Filmo Sportster, f2.5	65.00
B&H Filmo Auto-8, magazine loading 2-lens turret, ctd. 1/2" f1.9 and ctd. 1½" telephoto f3.5 focusing lenses w viewfinder lenses, complete	174.95
Bolex H8, 1/2" f1.9, 3-lens turret model	169.50
Cine Kodak R-20, f1.5	29.95
Cine Kodak R-60, f1.9 focusing	49.50
Cine Kodak Magazine-8, f1.9 focus	99.95
Cinemaster II, f2.5	27.50
DeJur Magazine, f2.5	68.00
Franklin Magazine, f2.5	49.50
Keystone K-22, f2.5 coated	44.95
Keystone KR, f2.5 w/Sunsak	29.50
Keystone Magazine K40, f2.5	69.95
Keystone Magazine K40, f1.9	74.50
Revere 88, f2.5 ctd. Wollensak	44.50
Revere 88, f1.9	68.50
Revere 99 turret, f1.9	79.95
Revere 99, 3-lens turret, 1½" f2.8 and 1½" tele focusing lens	89.95
Keystone K45, Mag., f2.5 coated	84.50
Keystone K45 Mag., f1.9 ctd	99.50

16mm CINE CAMERAS

Bell & Howell 70, f3.5 TH Cooke	$ 47.50
B&H Filmo 70DA, 3-lens turret, 7 speeds, f1.9, variable Viewfinder	195.00
B&H Filmo Autoload Magazine, f1.9 coated Lumax	119.95
B&H Filmo Autoload Magazine, f2.5 coated Ansco	99.50
B&H Filmo Automaster Mag. turret f1.9 coated Lumax	179.95
Bolex H-16, latest model, f1.9 lens in focusing mount	229.95
Cine Kodak B, f1.9 focusing	49.50
Cine Kodak K, f1.9 focusing mount	69.50
Cine Kodak Magazine, f1.9, focus	99.50
Keystone A7, 7 speed, f2.5 Wolf	47.50
Keystone A7, 7 speed, f1.5 Wolf	69.96
Revere 16 Magazine, f1.9 Wolf	89.50
Victor Model 4, f1.9 focusing	169.50

8mm PROJECTORS

Bell & Howell Filmomaster, 400 W	$108.00
Bell & Howell Picturemaster, 750 W	179.50
DeJur 750 W, with still and reverse projection, ctd. f1.6 lens	92.00
DeJur 1000, 750 W, same as above with Cosmomatic electric cond.	98.50
Keystone R-108, 750 Watts	79.50
Keystone R-8, 500 Watts	42.00
Radascope R-90, 750 Watts, case	129.50
Revere 85, 500 Watts, case	63.00

16mm SILENT PROJ.

Ampro Imperial, 750 Watt	$139.50
Bell & Howell 57, 500 Watts	57.50
B&H Diplomat, 750 W, still and reverse feature, case	159.00
B&H Showmaster, 2000 ft. capacity Watts, case	125.00
Bolex G8-16, 750 W, shows both 8mm and 16mm films	199.50
Keystone A-72, 300 Watts	39.50
Keystone K-160, 750 Watts	75.00

16mm SOUND PROJ.

Ampro Century 5, All-in-one case	$199.50
Ampro Premier 20, 750 Watts, for sound and silent films	275.00
Ampro Compact Portable, 750 Watts sound and silent features "Stills"	249.00
Bell & Howell Academy, 12" Speaker	298.00
Movie Mite	99.50
Natco Liteweight	159.00
Victor Liteweight, 750 Watts	199.50

SLIDE PROJECTORS

Argus Pa100, 100 Watts, 2x2	$17.00
Argus Pa200, 200 Watts, 2x2	21.95
Argus Pa300, 2x2 and 35mm strip	49.50
Gold'E Nu-Manumatic, 2x2, 300 Watts	39.50
Kodaslide 1A, 2x2, 100 W	18.95
Kodaslide 2A, 2x2, 250 W	29.50
Sean, 2x2, 100 W, blower-cooled	14.95
SVE Model RK, 2x2, 100 Watts	$ 21.95
SVE Model AAA, 2x2 and strip, 300 W	49.50
Viewlex AP-3, 150 W	26.50
Viewlex AP-5, 2¼x2¼, 150 W, f1.5 for color transparencies made with larger roll film cameras	34.95
Kodaslide Master, 2x2, 1000 W for large (cooled)	129.50

ENLARGERS

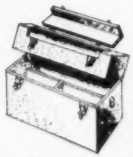
DeJur Versatile I, up to 2¼x3¼, 3½" f4.5 lens, condensers	$ 88.95
DeJur Versatile II, covers up to 2¼x3¼ neg. area, f4.5, condenser	74.50
Elwood S-2, Studio Model 5x7, 100 Watts	54.50
Elwood SP2, Studio Model 5x7, 200 Watts	83.95
Federal 269, 2¼x3¼, f6.3 lens	29.95
Federal 279, 2¼x3¼, f6.3 lens double condensers	34.50
Federal 312, 2¼x3¼, f6.3 lens	39.50
Federal 314, 2¼x3¼, f6.3 lens double condensers	54.50
Federal 315, 2¼x3¼, f4.5 lens double condensers	64.50
Federal 470, up to 4x5, f6.3 double condensers	94.95
Leitz Focomat I	79.75
Leitz Focomat IB, 35mm	109.50
Omega-Automega B3, up to 2¼x3¼	119.50
Omega B4, up to 2¼x3¼, condenser	77.50
Omega-Automega E3, autofocus professional, up to 5x7	269.00
Omega D2, 4x5, w colorhead	134.50
Solar 120, 2¼x3¼, condenser	47.50
Sunray Arnolds D, 2¼x3¼	54.50
Omega D-2, no colorhead, 6¾" f4.5 coated	157.50
Omega D-2, with colorhead, 6¾" f4.5 coated	169.50

9cm f6.8 Coated SCHNEIDER ANGULON
Wide Angle Lens

in Compur Rapid Shutter with Built-in Flash Synchronization

Brand New Postpaid **49.50**

YOU SAVE OVER 59%
PRESS OUTFIT CARRY CASE



- For 4x5 and smaller Press Cameras
- Takes film, flash bulbs, holders, accessories
- Solid—you can stand on it

List Price $22.00

YOUR COST **8.89**

Shp. Wt. 14 lbs.

2¼ x 3¼ R.B. GRAFLEX B

- f4.5 Kodak Anastigmat Lens
- Revolving Back
- Speeds to 1/1000th sec.

YOUR COST **47.50** Used

Shp. Wt. 9 lbs.

YOU SAVE $24.55
2¼x2¼ SLIDE PROJECTOR OUTFIT

- VIEWLEX AP5 SLIDE PROJECTOR with 150 Watt Lamp, used
- 40x40 Crystal Beaded TRIPOD SCREEN, NEW

List Price $64.50

Your Cost **39.95**

Shp. Wt. 20 lbs.

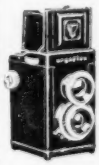
YOU SAVE $16.95
***Latest Model* BOLSEY B2**

- f3.2 Coated Lens
- Coupled Rangefinder
- Built-in Flash Synchronization
- Double Exposure Prevention Device

List Price $66.90

Shp. Wt. 3 lbs.

YOUR COST **49.95** used



YOU SAVE $34.80
ARGOFLEX EF
2¼ x 2¼ Twin Lens Reflex

- f4.5 Coated Lens
- Speeds to 1/200th sec.
- Built-in Flash Synchronization.

List Price $74.75

YOUR COST **39.95** used

YOU SAVE $145.11
BOLEX H16
16mm Movie Camera with 3 LENSES

- 3 Lens Turret
- Frame Counter
- 15mm f2.8 Wide Angle Lens
- 1" f1.9 Lens
- 3" f3.5 Telephoto Lens

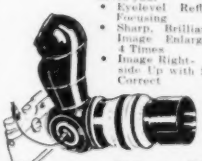
List Price $435.00

YOUR COST **289.00** used

Shp. Wt. 14 lbs.

Add REFLEX CAMERA versatility to your LEICA, CONTAX, Foton, Ektra or other 35mm Camera.

KILFITT REFLEX PRISM SCOPE
with Kilar Telephoto Lenses



Gives you:
- Eyelevel Reflex Focusing
- Sharp, Brilliant, Image Enlarged 4 Times
- Image Right-side Up with Sides Correct

	FOR LEICA	FOR CONTAX
KILFITT REFLEX PRISM SCOPE with 6" f5.5 coated Kilar Lens	$ 274.50	$ 314.50
KILFITT REFLEX PRISM Scope with 12" f5.6 coated Kilar Lens	314.50	354.50
KILFITT REFLEX PRISM Scope with 24" f5.6 coated Kilar Lens	1000.00	1045.00

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stops; rising, tilting, and laterally shifting front. Price, $99.50 including tax. Complete line of accessories available.

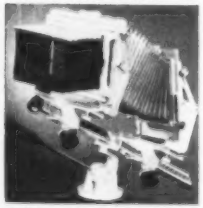
PACEMAKER SPEED GRAPHIC

Sheet film, packs, 4x5, 3¼x4¼, 2¼x 3¼ sizes; feature interchangeable lensboards; focal-plane shutter with governed speeds from 1/30 to 1/1000 sec.; built-in synchronization; dual control rack-and-pinion focusing; selector switch to set body release for front and back shutter operation; tilting front with vertical and lateral shifts; drop bed; double extension bellows; interchangeable film attachments; folding infinity stops; rising front; 2¼x3¼ model fitted with Graflok back for use with roll-film holder as well as regular 2¼x3¼ film attachments. Prices depend on lens equipment. Accessories include flash, filters, film attachments, rangefinder, lenses, etc.

PACEMAKER CROWN GRAPHIC

Sheet film, packs, 4x5, 3¼x4¼, 2¼x 3¼ sizes; feature the same advantages as the Pacemaker Speed Graphics with exception of the focal-plane shutter. Price depends on lens equipment. Accessories same as for Speed Graphic.

GRAPHIC VIEW II

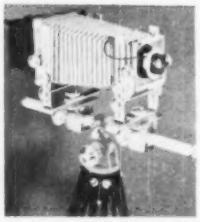


Sheet film, packs, 4x5; equipped with 3¼x4¼ or 4x5 Graphic or Graflex backs; interchangeable lensboards; 15½-inch bellows draw; identical swings, tilts, and shifts on both front and back; adjustments made on optical axis; V-section aluminum bed; camera bed combined with pan-tilt head; spirit level; track locks; includes sheet film holder and case. Price, with any one of 4 backs and without lens, $145 including tax. Complete line of accessories available.

MFR., Graflex, Inc.

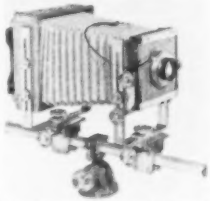
GROVER UNIVERSAL VIEW—4x5

Sheet film, packs, 4x5; optional lens equipment; 21" bellows extension; groundglass back focus; revolving back; all-metal construction; monorail bed; double extension bellows,



front and rear focusing; calibrated groundglass with four-sided hood; 4x4 lens board. Price, $84.50; deluxe case, $16.95.

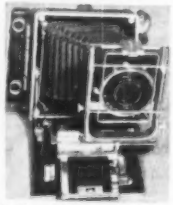
GROVER UNIVERSAL VIEW—5x7, 8x10



Sheet film, 5x7. Same features and equipment as the 4x5 model. Price, with wood reversible back, $94.50. Sheet film, 8x10. Same as above with 28-inch bellows. Price, including 6x6 lens board, 28" bellows, $119.50.

MFR., Burke & James, Inc.

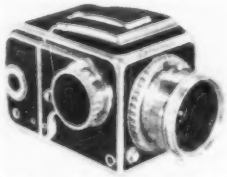
HACON 23



Sheet film, packs, 2¼x3¼; coated 105-mm Schneider Anastigmat f/4.5 lens in Compur shutter with speeds from 1 to 1/400 sec., B; delayed action; built-in synchronization; 9" bellows; eye-level and collapsible wire frame finders; manual scale, and groundglass focusing; available in two models: Technica model has revolving and tilting back; drop bed; geared rising lens board; tilting lens board and lateral movement; triple extension bellows, price, $195 plus tax. Standard model has all the above features with exception of revolving and tilting back, price, $169.50 plus tax.

DIST., Baco Accessories Co.

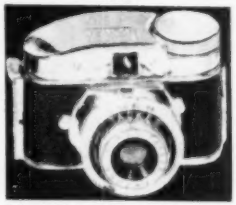
HASSELBLAD



Single-lens reflex camera using roll film size 120; 12 exposures, 2¼x2¼; coated 80-mm Ektar f/2.8 lens with bayonet mount; infrared infinity mark; depth of field scale; focal-plane shutter with speeds from 1 to 1/1600 sec., B; built-in synchronization for all types of lamps; reflex focusing; exposure counter; depth of field guide; back detachable to permit sheet film use; body-type shutter release; compact size. Price, $548; several cases available, $15 and up.

DIST., Willoughbys.

HIT



Sub-miniature using special daylight loading rolls; 10 exposures, 14x14 mm; 20-mm Tacker f/4.5 lens; built-in eye-level finder; leather-over-metal construction; shutter settings, 1/25 sec., & B; weighs 83 grams. Price, $2.98 including tax.

DIST., General Photographic Supply Co.

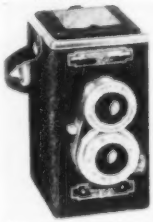
HOLLYWOOD REFLEX SIGHTSEER II

Roll film size 620; 12 exposures, 2¼x2¼; 2-lens reflex; 75-mm coated Zeltar f/14 lens; single-action shutter, 1/50 sec., & B; built-in synchronization; waist-level finder; fixed focus; tripod socket; tubular film counter window. Price, $15.61 including tax; eveready case, $5.50. Other accessories available include flashguns, filters, etc.

HOLLYWOOD REFLEX SPORTSMAN II

Roll film size 620; 12 exposures, 2¼x2¼; two-lens reflex; 80-mm coated Achromat Doublet f/8 lens; single-action shutter, speeds 1/50, 1/150 sec. & B; built-in synchronization; eye-level and waist-level finders; reflex and helical focusing. Price, $22.50; eveready case, $5.50. Flashgun, filters available as accessories.

HOLLYWOOD REFLEX MODEL E



Roll film size 620; 12 exposures, 2¼x2¼; 2-lens reflex; 80-mm coated pan-achromat f/7.7 lens; single-action shutter, speeds, 1/50, 1/150 sec., & B; built-in synchronization; eye-level and waist-level finders; helical and reflex focusing; exposure guide; built-in sight magnifier. Price, $29.93 including tax; eveready case, $5.50.

MFR., Craftex Products Corp.

IKONTA B

Roll film size 120; 12 exposures,

2¼x2¼; coated 75-mm Novar f/3.5 lens in shutter with speeds from 1 to 1/250 sec., & B; delayed action; or 75-mm Zeiss Novar f/4.5 lens in Synchronized Prontor shutter with speeds from 1 sec. to 1/200 sec., & B; delayed action; built-in synchronization; eye-level finder; scale focusing; depth of field guide; automatic shutter lock; shoe for waist level finder; eveready case. Price, with f/3.5 Novar, $69; f/4.5 Novar, $59; f/3.5 Zeiss Tessar in Synchronized Compur Rapid, speeds from 1 to 1/500 sec., $108. Accessories include slip-on lenses, filters, lens shade, waist-level finder, etc.

IKONTA C

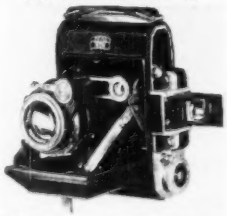
Roll film size 120; 8 exposures, 2¼x3¼; Prontor shutter, speeds from 1 to 1/250 sec., & B.; delayed action timer; built-in synchronization; eye-level finder; scale focusing; depth of field guide; automatic shutter lock; body release; eveready leather case.

Price, with 105-mm Novar f/4.5 lens, $84; with f/3.5 Zeiss Tessar in synchronized Compur shutter with speeds to 1/400 sec., $118. Prices include tax. Waist-level finder, slip-on lenses, filter, lens shades among accessories.

IKONTA A

Roll film size 120; 16 exposures, 1⅝x 2¼; same features as Ikonta C. Price, with Novar f/4.5 lens, $59; with Novar f/3.5 lens, $68; with Zeiss Tessar f/3.5 lens in Compur shutter with speeds up to 1/500 sec., $108. Prices include tax and case.

SUPER IKONTA A



Roll film size 120; 16 exposures, 1⅝x2¼; coated 75-mm Zeiss Tessar f/3.5 lens in synchronized Compur Rapid shutter, speeds from 1 to 1/500 sec., & B; eye-level finder; coupled rangefinder; depth of field guide; automatic shutter lock; body release; eveready leather case. Price, $171. Accessories include slip-on lenses, filters, lens shade, etc.

SUPER IKONTA B

Roll film size 120; 11 exposures, 2¼x2¼; coated 80-mm Zeiss Tessar f/2.8 lens; depth of field scale; Compur Rapid shutter, speeds from 1 to 1/400 sec., & B; built-in synchronization; delayed action timer; eye-level finder; coupled range- and view-finder in one window; film locking

device; shutter lock; body release; waist finder accessory shoe; eveready leather case. Price, $235. Accessories same as Super Ikonta A.

SUPER IKONTA C

Roll film size 120; 8 exposures, 2¼x3¼; same features as Super Ikonta A. Price, with coated Zeiss Tessar f/3.5 lens in synchronized Compur shutter with speeds up to 1/400 sec., $190. Price includes tax and case.

SUPER IKONTA BX

Same as Super Ikonta B, but takes 12 exposures, and has a built-in photoelectric exposure meter. Price, $280.

IKONTA 35

Cartridge, 35 mm film, up to 36 exposures, 1x1½; coated 45-mm Zeiss Tessar f/2.8 lens in synchronized Compur Rapid shutter, speeds from 1 to 1/500 sec., & B; eye-level finder; scale focusing; exposure counter; depth of field guide; eveready leather case. Price, $111; with 45-mm Zeiss Novar f/3.5 lens in Klio shutter, with speeds from 1 to 1/250 sec., & B; delayed action; built-in synchronization, $72.

IKOFLEX II

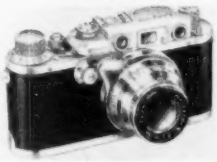
Roll film size 120; 12 exposures, 2¼x2¼; 75-mm coated Zeiss Tessar f/3.5 lens; depth of field scale; synchronized Compur shutter, speeds from 1 to 1/500 sec., & B; delayed action; extra bright reflex finder of combined magnifier and Fresnel grating; focusing magnifier; automatic shutter lock; body release; leather eveready case. Price, $168. Accessories include slip-on lenses, filters, lens shades, etc.
DIST., Carl Zeiss, Inc.

KALART

Sheet film, filmpacks, 3¼x4¼; press-type camera; 127-mm coated Raptar f/4.5 lens; Rapax shutter, speeds, 1 to 1/400 sec., T & B; built-in synchronization; eye-level finder; manual, groundglass, and scale focusing; coupled rangefinder with one window for range- and viewfinders; features include, 2 built-in flash receptacles, built-in Focuspot, electric shutter release; dual finder windows; built-in compartment for batteries.

Price, including flash reflector, $287.50.
MFR., The Kalart Co.

KARDON I

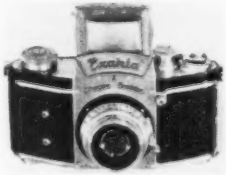


Cartridge 35 mm film; up to 36 exposures, 1x1½; 47-mm Kodak Ektar coated f/2 lens in screw mount; depth of field scale; focal plane shutter with speeds from 1 to 1/1000 sec., T & B; eye-level finder; helical focusing; coupled rangefinder; exposure counter; depth of field guide; non-collapsible mount. Price, $262.50, plus tax; eveready case, $10.50. Accessories include, flash unit, copying attachment, exposure meter, interchangeable lens, lens shade, slip-on lenses, filters.
MFR., Premier Instrument Corp.

KAROMET 36

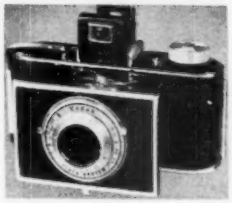
Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Schneider Xenar f/2 lens; depth of field scale; Compur Rapid shutter with speeds from 1 to 1/500 sec., T & B; built-in synchronization; built-in eye-level finder; helical focusing; coupled, single-window-type rangefinder; exposure counter; depth of field guide; rapid feeding lever with automatic shutter cocking device and exposure meter; body release; double exposure prevention device. Price, $179.50 including tax.
DIST., Alfa Photo Corp.

KINE EXAKTA II



Cartridge 35 mm; 36 exposures, 1x1½; single-lens reflex; coated 50-mm Zeiss Tessar f/3.5 lens; focal-plane shutter with speeds up to 1/1000 sec., T & B; built-in synchronization; eye-level and waist-level finders; reflex focusing; depth of field guide; eveready case; exposure counter. Price, $150 plus tax. Complete line of accessories including wide-angle and telephoto lenses.
DIST., Exakta Camera Co.

KODAK FLASH BANTAM f/4.5



Roll film size 828; 8 exposures, 28x40 mm; 48-mm coated Kodak Anastigmat f/4.5 lens; shutter speeds from 1/25 to 1/200 sec., T & B; built-in synchronization; manual focus; eye-level finder. Price, $49.50. Accessories: filed case, flasholder, service rangefinder, slip-on lenses, accessory clip, etc.

KODAK DUAFLEX

Roll film size 620; 12 exposures, 2¼x2¼; two lens reflex; 75-mm Kodet f/15 taking lens; viewing lens has wide aperture; instantaneous shutter speeds and B; fixed focus; waist-level viewfinder; built-in synchronization; plunger-type body release. Price, $12.75, including tax. Price of the de luxe model, with Kodar f/8 lens, diaphragm adjustment, focusing mount, and double exposure prevention device, is $19.85. Accessories include flasholder and slip-on lenses.

KODAK 35 f/3.5 RANGEFINDER

Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm coated Kodak Anastigmat Special f/3.5 lens; Kodamatic shutter, speeds, 1/10 to 1/200 sec., T & B; built-in synchronization; eye-level finder; coupled rangefinder; shutter set and film advance automatically; exposure counter; film-type indicator. Price, $86.75. Accessories include, field case, flasholder with bracket, slip-on lenses, etc.

KODAK PONY 828

Roll film size 828; 8 exposures, 28x40 mm; coated 51-mm Kodak Anaston f/4.5 lens; depth of field scale; Kodak Flash 200 shutter with speeds from 1/25 to 1/200 sec., B; built-in synchronization for Class F lamps; built-in eye-level viewfinder; helical focusing; film-type indicator; body release; release lock prevents exposure until lens barrel is in taking position. Price, $29.95 including tax. Complete line of accessories.

KODAK MEDALIST II

Roll film size 620; 8 exposures, 2¼x3¼; 100-mm coated Kodak Ektar f/3.5 lens; infrared index mark; depth of field scale; Flash Supermatic shutter with speeds from 1 to 1/400 sec., T & B; eye-level finder with parallax-correcting frame; helical focusing by scale or coupled rangefinder; exposure counter; film-type indicator; double-exposure prevention lock. Price, $312.50 including field case and tax. Accessories include field case, flasholder, accessory back to handle sheet film, plates, and packs; extension units, copying assembly, etc.

KODAK REFLEX II

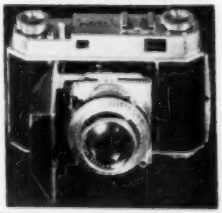
Roll film size 620; 2-lens reflex; 12 exposures, 2¼x2¼; 9 exposures on Kodacolor, Ektachrome, and Infrared films; coated 80-mm Kodak Anastar f/3.5 taking and viewing lenses, gear coupled; Flash Kodamatic shutter

with speeds from 1/2 to 1/300 sec., T & B; built-in synchronization adjustable for Class F & M lamps; distance and depth of field scales; eye-level and waist-level finders; reflex focusing; Kodak Ektalite Field lens under groundglass to boost brightness of image on finder; automatic film stop; film-type indicator; field case with removable front; infrared focus dot. Price, $155 including tax. Complete line of accessories.

KODAK RETINA I

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Schneider Xenar f/3.5 lens in Compur Rapid shutter with speeds from 1 to 1/500 sec., B; depth of field scale; built-in optical eye-level finder; exposure counter; double exposure prevention device; automatic film stop; body release. Price, $72.75 including tax.

KODAK RETINA II



Similar to the Retina I; equipped with coated 50-mm Schneider Xenon f/2 lens in Compur Rapid shutter; coupled, single-window-type rangefinder; accessory clip. Price, $197.75 including tax. Accessories include field case, filters, slip-on lenses, etc.

KODAK TOURIST

Roll film size 620; 8 exposures, 2¼x3¼; available with 5 different lens-shutter combination; built-in syn-

chronization; depth of field scale; built-in eye-level finder; exposure computer; shutter release built into

camera bed. The f/4.5 model has coated 105-mm Kodak Anaston f/4.5 lens in Flash Kodamatic shutter with speeds from 1/10 to 1/200 sec., T & B; preset for Class F lamps, adjustable for M. Price, $71; the f/6.3 model has coated 105-mm Kodak Anaston f/6.3 lens in Flash Diomatic shutter with speeds from 1/25 to 1/100 sec., T & B; preset for Class F lamps. Price, $47.50; the f/8.8 model has coated 100-mm Kodak Anaston f/8.8 lens in Flash Diomatic shutter. Price, $38.50; the Kodet model has a coated 86-mm Kodet f/12.5 fixed-focus lens with diaphragm stops to f/32; Flash Kodon shutter with I, B & T; preset for Class F lamps at I,

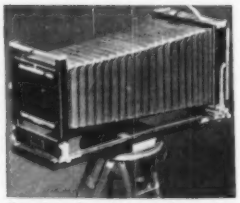
Class M at B. Price, $24.50; the fifth model has a coated 101-mm Kodak Anastar f/4.5 lens in the Kodak Synchro-Rapid shutter with speeds from 1 to 1/800 sec., B; continuous-adjustment time-delay setting for all lamps including speedlamps. Price, $95. Accessories for all 5 models include field case, flash units, lens attachments, and Kodak Tourist Adapter Kit which enables camera to take 4 different picture sizes.

KODAK MASTER VIEW 4x5

Sheet film, packs, 4x5; optional lens equipment; 15" bellows extension; groundglass back; carrying case; 1 Graphic film holder; 1 film-pack adapter; monorail bed, with front and back movements; revolving back; pull-down handle for inserting film holders; back and front horizontal and vertical swings; mounted spirit levels; transverse or horizontal slide on both front and back; clamp-on focusing cloth. Price, less lens, $225. Complete accessories available.

KODAK VIEW CAMERA 2D—5x7

Sheet film, 5x7; optional lens equipment; 23" bellows extension; groundglass back; rising and falling front; horizontal and vertical swings on back; reversible back; back and front focusing by rack-and-pinion; slide tripod block; back supplied with sliding cut-off boards. Price, with case, $117; without case, $105.



Complete line of accessories, reducing backs, sliding carriage, etc.

KODAK VIEW CAMERA 2D—8x10

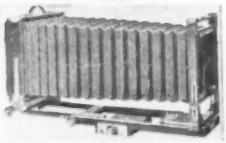
Sheet film, 8x10; same equipment and features as above; 29½" bellows extension. Price, with case, $133.50; without case, $120. Same accessories as the 5x7 model.

MFR., Eastman Kodak Co.

KORONA COMMERCIAL

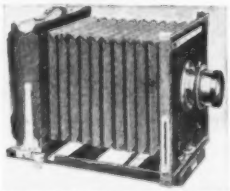
Sheet film, 4x5, 5x7, and 8x10; double extension bellows; swing back; rising and falling front; tilting front; side swing, and lateral front movement; all adjustments under rack-and-pinion control; reversible groundglass back. Prices, without lens: 4x5 model, $55; 5x7 model, $65; and 8x10 model, $70.

KORONA PICTORIAL VIEW



Sheet film, 5x7 and 8x10 sizes; 5x7 model has bellows draw of 21", minimum, 5"; 8x10 model has maximum of 29", minimum of 6"; groundglass back; telescopic bed; metal-to-metal slide parts; many commercial movements. Price, 5x7 model, $75; 8x10 model, $94.50.

KORONA HOME PORTRAIT



Sheet film, 5x7 and 8x10 sizes; 5x7 model has bellows draw of 13½", minimum, 5"; 8x10 model has maximum of 18½", minimum of 6"; single bed extension, large lens board; groundglass back; metal slides in metal; compact view camera. Price, 5x7 model, $48; 8x10 model, $57.

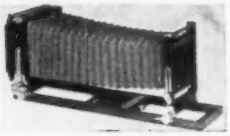
KORONA BANQUET

View camera using 12x20" film size; maximum bellows 22¼", minimum, 6"; 17-inch lens in Alphax or Acme shutter recommended; groundglass back; rack-and-pinion focusing; swinging lens board; view camera movements. Price, without lens, $180.

KORONA PANORAMIC VIEW

View-type camera produces 8x20" negatives; maximum bellows extension 32½", minimum, 7"; groundglass back; 17-inch lens in Alphax or Acme shutter recommended; rack-and-pinion focusing; metal-to-metal slide grooves. Price, without lens, $180.

KORONA VIEW



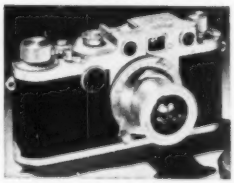
Similar to the Korona Commercial camera except does not have tilting lens board and lateral side wing front. Prices, without lens, 4x5 model, $50; 5x7 model, $55; and 8x10 model, $65.

MFR. Gundlach Mfg. Co.

LEICA IIIc

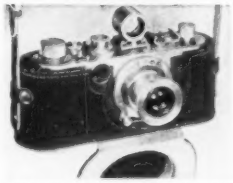
Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm coated Summitar Anastigmat f/2 lens; screw mount (interchangeable); depth of field scale; focal-plane shutter, speeds from 1 to 1/1000 sec., T & B; eye-level finder; coupled rangefinder; exposure counter; accessory shoe clip. Price, $385 including tax; eveready case, $12.50. Available with 50-mm coated Elmar f/3.5 lens, $280. Available as accessories are filters, interchangeable lenses, lens shade, and slip-on lenses, etc.

LEICA IIc



Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Elmar Anastigmat f/3.5 lens; screw mount (interchangeable); infrared infinity mark; depth of field scale; focal-plane shutter with speeds from 1/30 to 1/500 sec., B; built-in eye-level finder; helical focusing; coupled rangefinder; exposure counter; depth of field guide. Price, $210 including tax; eveready case, $12.50. Equipped with coated 50-mm Summitar f/2 lens, $297.50.

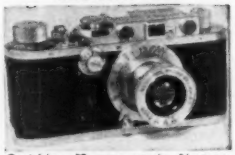
LEICA Ic



Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Elmar Anastigmat f/3.5 lens; screw mount; infrared infinity mark; depth of field scale; focal-plane shutter with speeds from 1/30 to 1/500 sec., B; eye-level finder; helical focusing; eveready case; exposure counter; depth of field guide; accessory clip. Price on request.

DIST., E. Leitz, Inc.

LEOTAX DIII



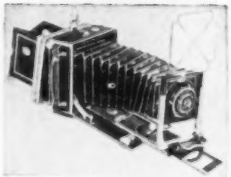
Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Similar f/2 lens; depth of field scale; focal-plane shutter with speeds from 1 to 1/500 sec.; built-in eye-level finder; coupled rangefinder; automatic film stop; double exposure prevention device; exposure counter; eveready case. Price, $195 including tax; with coated 50-mm Similar f/3.5 lens, $135.

SEMI LEOTAX

Roll film size 120; 16 exposures 4½x6 cm; 75-mm Wester f/3.5 lens in Konan Rapid shutter with speeds from 1 to 1/200 sec., T & B; eye-level finder; accessory clip. Price, $42.50 including case and tax.

DIST., General Photographic Supply Co.

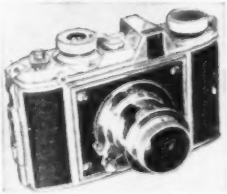
LINHOF TECHNIKA III



Sheet film, 4x5; optional lens equipment; triple extension track; 15" bellows extension; drop bed; eye-level finder; groundglass back; scale focusing; 4x5 revolving press-type back; rising, lowering, sliding, and laterally swinging front; back swings; back focusing; bubble levels; all-metal construction. Price, $169.50 without lens. Accessories include interchangeable lenses, film adaptors and Linhof Multi-Focus Rangefinder.

DIST., Peerless Camera Stores.

LYNX



Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm coated Berthiot Anastigmat f/3.5 lens; focal plane shutter, speeds from 1/25 to 1/500 sec., T & B; delayed action; eye-level finder; helical focusing. Price, with eveready case, $135. Accessories include interchangeable lenses, filters, lens shades, etc.

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85mm Zeiss Sonnar F2		189.00	145.00
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135mm Zeiss Sonnar F4		129.00	90.00
MINICAMS AT MINIFILM			
UNIVEX MERCURY I, F3.5, cc		14.50	8.00
MERCURY II, F2.7 ctd. cc		34.50	18.00
AGFA KAMAT II, Rfdr. F2.8 Xenar		49.00	30.00
ARGUS A2 F4.5 ctd. cc	29.50	16.50	10.00
ARGUS C3, F3.5 ctd. Flash cc	59.95	37.50	27.50
ARGUS 21, F3.5 Ctd.	60.25	32.50	20.00

	NEW	USED	TRADE-IN Allowance
PERFEX 101, Rfdr. F4.5 ctd.	24.50	18.00	12.00
PERFEX 102, Rfdr. F3.5 ctd.	29.95	23.50	16.00
PERFEX 55 Rfdr. F2.8 lens		34.50	20.00
PERFEX DELUXE, F2.8 ctd.	79.00	44.00	25.00
BOLSEY B, Rfdr. F3.2 ctd.	55.90	39.00	30.00
BOLSEY B2, F3.2 ctd. Synchro	66.90	49.50	35.00
BOLSEY Model C 35mm Twin Lens Reflex	99.50		
RETINA 1, F3.5 lens		34.00	20.00
RETINA 1A, F3.5 ctd. Xenar or Ektar, chrome		45.00	35.00
RETINA IIA Rfdr. F2 ctd. Xenar or Ektar, chrome		114.00	90.00
RETINA IIB, Rfdr. F2 Ctd. Xenar or Ektar, Flash syncro shut.	197.63	129.00	100.00
KINE EXAKTA, F3.5 Ctd. Tessar cc	109.00	89.00	65.00
KINE EXAKTA F2.8 ctd. Tessar, cc	139.00	114.00	80.00
KINE EXAKTA F2 Biotar T Ctd. cc	189.00	149.00	100.00
FLASH BANTAM, F4.5 ctd.	49.50	34.00	25.00
KODAK 35 w/rfdr. F3.5 ctd.	86.75	53.00	40.00
CLARUS, rfdr. F2.8 ctd.	116.25	63.00	45.00
KARDON F2 Ektar ctd.	229.50	169.00	125.00
MINOX SPY CAMERA F3.5 lens	197.50	87.50	55.00
STEREO REALIST, F3.5 ctd. lens	162.50	124.00	90.00
ROLL FILM CAMERAS			
Super Ikonta A, F3.5 Tessar cc		79.00	55.00
Super Ikonta A Special F3.5 Tessar cc	171.00	105.00	75.00
Super Ikonta B, F2.8 Tessar, cc	235.00	129.00	100.00
Super Ikonta BX, F2.8 Tessar, cc	280.00	179.00	125.00
Super Ikonta C Special F3.5 Tessar	190.00	119.00	80.00
Polaroid Land Camera	89.75	59.00	45.00
Medalist 1, F3.5 Ektar ctd.		109.00	80.00
Medalist 11, F3.5 Ektar ctd.		174.00	135.00
MINI REFLEX			
ARGOFLEX E, F4.5 ctd. cc	69.63	33.50	28.00
CIROFLEX B, F3.5 ctd. Alphax	76.98	47.50	38.00
CIROFLEX C, F3.5 ctd. Rapax	89.45	59.50	50.00
CIROFLEX D, F3.5 ctd. Alphax Syncro	83.50	64.00	50.00
CIROFLEX E, F3.5 ctd. Rapax Syncro	113.00	84.00	70.00
CIROFLEX F F3.5 ctd. Rapax Syncro	148.75	109.00	80.00
IKOFLEX 1, F3.5 T ctd. Tessar, cc	104.00	79.50	60.00
IKOFLEX 11, F3.5 T ctd. Tessar, cc	158.00	119.00	90.00
ROLLEICORD 1, F4.5 Triotar, cc		54.00	40.00
ROLLEICORD 11A, F3.4 ctd. Triotar or Xenar, cc	189.00	84.00	70.00
ROLLEICORD 11B, F3.5 ctd. Triotar, Flash syncro shutter, cc. .	130.00		

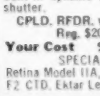
35mm ANSCO COLOR Reloads

Factory Fresh Guaranteed

20 Exp.	5 for $4.90
36 Exp.	3 for 4.90
25 Ft. Bulk	5.75
100 Ft. Bulk	19.75

ANSCO COLOR PROCESSING
20 Exp. Roll, incl. Mounting
2 for $1.75

Exp. Date: One year from date of purchase



YOU SAVE $70.50

Latest Model Kodak Retina 11B w/F2 Xenon ctd. lens, with built-in synchro compur rapid shutter.

CPLD. RFDR. w/Flashgun
Reg. $205.25
Your Cost $134.75 used

SPECIAL!!!
Retina Model IIA, F2 CTD. Ektar Lens **$114.00** used

8mm or 16mm Mansfield Junior Editor takes up to 2000 Ft. Reels.

With Jr. Splicer . . ONLY $5.95
With Auto Splicer 9.95

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1190 AVENUE OF AMERICAS, N. Y. C., BET. 46th AND 47th ST.

Value Parade

	NEW	USED	TRADE-IN Allowance
MINI REFLEX			
ROLLEICORD 11B, F3.5 ctd. Xenar, Flash Syncro shutter, cc	140.00		
AUTO ROLLEIFLEX 11B, F3.5 Xenar ctd.	220.00	145.00	110.00
AUTO ROLLEIFLEX 11B, F3.5 Tessar ctd.	260.00	169.00	120.00
KODAK REFLEX F3.5 ctd. cc	95.00	69.00	50.00
KODAK REFLEX 11, F3.5 ctd. cc	154.91	109.00	85.00
3¼ x 4¼ Super D Graflex Auto Diaph. Ektar, F4.5 ctd.	189.00	114.00	90.00
PRESS CAMERAS			
2¼ x 3¼ Busch, F4.5 Wollensak Rapax w/cpld. rfdr.	161.25	108.00	80.00
2¼ x 3¼ Crown Graphic F4.5 ctd. w/Kalart rfdr.	194.00	155.00	115.00
2¼ x 3¼ Pacemaker Speed Graphic, F4.5 ctd., w/Kalart Rfdr.	232.00	175.00	125.00
2¼ x 3¼ Ann. Sp. Graphic F4.9 Rfdr. Flash, Access.		117.00	95.00
6 x 9 CM Film Pack Camera Compur shutter FPA		39.00	20.00
9 x 12 CM Film Pack Camera F4.5 Compur Shutter FPA		49.00	25.00
4 x 5 Crown Graphic F4.7 ctd. Ektar w/cpld rfdr.	209.00	169.00	115.00
4 x 5 Pacemaker Sp. Graphic F4.7 ctd. Ektar w/Kalart rfdr.	248.00	184.00	155.00
2¼ x 3¼ Century Graphic F4.5 Ctd. Trioptar, Alphax Syncro	109.50		55.00
2¼ x 3¼ Graphic Roll Film Back	19.95		
8mm CAMERAS			
Revere Ranger F2.5 ctd.	62.50	39.00	30.00
Revere 88, F2.5 ctd.	74.50	45.00	35.00
Revere 99, F2.8 ctd.	99.50	65.00	45.00
Revere 77, Mag. F2.5 ctd.	87.50	54.50	40.00
Revere 70, Mag. F2.8 ctd.	122.50	74.50	55.00
B&H Companion, F2.5 ctd.	89.83	59.00	45.00
B&H Sportster F2.5 ctd.	99.75	66.00	50.00
B&H Auto 8 Mag. F2.5 ctd.	174.42	127.00	90.00
DeJur Embassy, Mag. F2.5 ctd.	99.50	66.00	50.00
Kodak Reliant F2.7 ctd.	89.00	59.00	40.00
DeJur Citation, F2.5 ctd.	69.50		
Cine Kodak Mag. F1.9 ctd.	147.50	98.00	75.00
Bolex L8 F1.9 ctd.	99.50	68.00	50.00
Bolex H8 Turret, F1.9 ctd.	339.00	174.00	130.00
16mm CAMERAS			
REVERE MAG. F2.5 ctd. lens	130.00	89.00	70.00
REVERE MAG. F1.9 ctd. lens	150.00	115.00	85.00
REVERE MAG. Turret F2.7 ctd.	152.50	115.00	85.00
Cine Kodak Mag. F1.9 ctd. Ektar	175.00	108.00	80.00
Bolex H16 Turret, F1.5 ctd.	343.00	184.00	145.00
Victor Model 4 1" F1.5 ctd.	189.00	149.00	110.00
B&H Autoload F2.5 ctd.	162.50	98.00	75.00
B&H Autoload F1.9 ctd.	185.00	129.00	100.00
B&H Automaster turret F2.5	222.51	155.00	120.00
B&H 70DA turret, F1.9	307.17	195.00	145.00
Pathe Super 16mm	395.00		

	NEW	USED	TRADE-IN Allowance
8mm PROJECTORS			
KEYSTONE R8, 500 Watt	74.50	49.00	35.00
Keystone K108, 750 Watt	129.50	82.00	65.00
Revere Model 85, 500 Watt	99.50	64.00	50.00
Revere Deluxe 90, 750 Watt case	132.50	93.50	70.00
Ampro A8, 750W case	129.00	89.50	65.00
B&H Regent, 500W	149.50	105.00	75.00
DeJur Model 750, 750W case	139.50	92.00	75.00
DeJur Model 1,000 750W case	159.50	112.00	85.00
16mm PROJECTORS			
KEYSTONE A82, 750W	99.50	61.50	45.00
Keystone K160 750W	119.50	77.50	60.00
Revere 16mm 750W	137.50	92.00	75.00
B&H Diplomat, 750W	273.30	159.00	120.00
Natco Liteweight	298.50	219.00	170.00
B&H Model 185 Film Sound Single case 6" Speaker	399.50	269.00	200.00
Revere Sound 750W	287.50	179.50	150.00
Ampro Stylist, 750W	325.00	240.00	185.00
MINIFILM VALUES			
REVERE TAPE RECORDER	159.50	112.00	80.00
Ampro Tape Recorder	94.50	65.00	45.00
Argus Slide Proj. 100W	27.75	17.50	12.00
Golde Nu Manumatic	84.66	49.50	30.00
TDC Model A1, 150W	29.75	22.00	12.00
TDC Model D, 300W, 35mm 2¼	64.70	42.50	30.00
DeJur Versatile 4 Enlarger F4.5	99.00	70.00	45.00
Omega B4 F4.5 B&L lens	134.75	92.00	65.00
2¼ x 3¼ Automega B3	183.75	118.50	90.00
4 x 5 Omega D11	196.50	135.00	100.00
Weston Cadet Meter	21.50	13.50	9.00
Weston Master II	29.67	19.75	12.00

CONVENIENT TERMS ARRANGED!!!

You can buy that camera now under MINIFILM'S Time Payment Plan with just 10% Down! 10% a month! (Trade in of your old equipment can also be accepted as down payment) and a brief note about your age, occupation and 2 references. MINIFILM will do the rest!

MAIL ORDERS PROMPTLY FILLED! PAID or C.O.D. F.O.B. NEW YORK. Note: On C.O.D. Kindly include 10% Deposit on Order. Balance C.O.D. **SEND YOUR ORDER TO MINIFILM — WIRE COLLECT.** If your camera isn't listed, write for free appraisal. — If your selection isn't listed, write for quotation! Write for our FREE New Bargain Bulletin — Full of additional selections and current trade-in allowance values.

New Improved Contax Back Again!! After Nine Long Years

New Contax 11A, F2 T Ctd. Sonnar Lens and Case **$397.00**

w F1.5 T Ctd. Sonnar Lens and Case **$472.00**

NEW CONTAX S 35mm REFLEX F2 T Ctd. Biotar Lens **$475.00**

Case $17.50

VERY LATEST MODEL

LEICA IIIC with Ctd. F2 Summitar Lens, Case, Lenscap.

SPECIAL (used) **$219.00**

SAVE 50%!

2-Light Movielite $6.95
2 Reflector Floodlamps ..... $1.17 each

As you follow action your lights cover the subject.

TOTAL $9.29

YOUR COST AT MINIFILM

Include 30c postage ONLY **$4.95**

YOU SAVE $53.47

New Argus C3 Outfit

Argus C3, F3.5 Ct. Lens, Case, Flashgun ($59.95), Telephoto Lens, Sunshade, 3 filters, 12 rolls—36 exp. film, 1 roll color film, Processed FREE. Complete OUTFIT, BRAND NEW

REGULAR $129.97

MINIFILM'S SPECIAL **$76.50**

Just $8.95 DOWN

YOU SAVE $25.55!!

New Argoflex EF Outfit!!

ARGOFLEX EF CAMERA ($56.95) All metal body, case, Flashgun, Shade, $7.25 worth of filters, all metal Tripod and Panhead, 12 Flash bulbs, 3 Pan Film, 2 Color Films, processed Free.

REGULAR $93.00

YOUR COST AT MINIFILM **$67.95**

BARGAINS BELOW ARE BEING OFFERED AT PRICES BELOW COST!!! Several models of each Camera are in Stock. ACT NOW!! Indicate your second choice to insure prompt delivery. . .

YOUR CHOICE!!

35mm Argus A, F4.5 lens
Spartus 35mm F7.7 ctd.
Voigtlander Brilliant, F7.7
620 Kodak Flash Camera
120 Ansco Rediflex
616 Kodak Folding
$9.85
Universal Meteor F7.7
Kodak 620 Folding F6.3
Ansco Speedex Jr. F11 lens
120 Delta, Folding
8mm Univex Camera, F4.5

YOUR CHOICE!!

120 Roamer 1, F6.3 ctd.
620 Kodak Folding F4.5 lens
Ansco 620 Folding
5x7 View Camera, Reg. lens and W.A. lens
$18.75
Uniflex 1 Reflex, F5.6 ctd.
35mm Wirgin, F4.5 lens
Argus C2, F3.5 lens
Perfex 44, Rfdr. F3.5 lens
120 Monte Carlo, F4.5 lens
16mm Ansco Movie Camera F3.5

YOUR CHOICE!!

9x12 Cm Filmpack Camera F4.5 lens
120 Roamer II, Folding, F4.5 ctd. lens
35mm Voigtlander Vito, F3.5 Skopar
120 Voigtlander Bessa, F4.5 ctd.
Voigtlander Bessa 46, F4.5
120 Agfa Isolette, F4.5 lens
35mm Buccaneer, F3.5 ctd.
$27.75
35mm Welta, F2.9 Cassar lens
35mm Adox, F2.8 Cassar lens
2¼x3¼ Baco Press, F4.5 lens
120 Ikonta C, F4.8 Novar lens
120 Rodenstock Folding, F2.9 trinar
8mm Cinemaster II, F2.5 lens
16mm Simplex Pockette, F2.7 lens
16mm Derry, F3.5 lens
16mm Cine Kodak Model B, F3.5

YOUR CHOICE!!

Voigtlander Brilliant, F4.5
Kodak Monitor, F4.5 ctd. lens
Kodak Vigilant F4.5 ctd. lens
Kodak Duo 620, F3.5 lens compur
35mm Vokar, F2.8 ctd.
127 Exacta Jr. F4.5
$38.85
120 Adox, F4.5 Radionar, Built-in Flash Prontor, Delayed Action
120 Ikonta C, F4.5 Novar
8mm Cine Kodak Model 25, F2.7 lens
8mm Keystone H8, F2.5 lens

YOU SAVE $64.00

COMPLETE KINE EXACTA II OUTFIT!! Latest Brand New 35mm Kine Exacta II Reflex Camera w F3.5 T CTD. Tessar lens, bayonet extension tube set, focusing Hood, Case.

Reg. $293.00
SPECIAL PRICE **$139.50**

KINE EXAKTA II OUTFIT w F2 T CTD. Biotar Lens **$179.50**

Save $64.43 NEW 4x5 BUSCH

Model D Camera $89.50
135mm F4.5 Tessar Lens $85.00
New Kalart Rfdr. installed 41.50
New Flashgun 14.50
New 1 4x5 Film Pack Adapter 9.20
New 1 4x5 Cut Film Holder 4.48

REG. $234.18
YOUR COST **$169.75**

NEW IMPROVED Auto Rolleiflex 11B!

with flash Synchro Compur Rapid Shutter OPEN FRAME SPORTS FINDER

with F3.5T Ctd. Tessar Lens $260.00
with F3.5 Ctd. Xenar Lens $220.00
with F2.8 T Ctd. Tessar 310.00
New Improved Click open case 15.00

Minifilm will Trade-In your old Rolleiflex for a NEW 1950 MODEL 11B

with F3.5 T Ctd. Tessar $75.00
with F2.8 T Ctd. Tessar 144.00

35mm FILM FANS!! Fully Guaranteed!!

Eastman	Ansco	DuPont
100 Ft.	200 Ft.	400 Ft.
$1.10	$1.85	$3.75

FREE

12 EMPTY 35mm CARTRIDGES with 100 Ft. 35mm bulk film (your choice) daylight bulk film loader.

SALE PRICE $5.95

YOUR CHOICE!!

VOIGTLANDER BESSA F3.5 cpld Rfdr.

2¼x3¼ Graflex Ser. B, F4.5
Super Baldina, F2.8, Rfdr.
35mm Dolina II, Rfdr. F2.8 Tessar
$49.50
3¼x4¼ Graflex B, F4.5 lens
2¼x3¼ Watson Press, F4.5 lens
35mm Robot I, F2.8 Tessar
127 Exakta Jr. F3.5
620 Kodak Tourist, F4.5 ctd.
Baldanette, Rfdr. F2.8 Xenar
8mm B&H Companion, F3.5

LU-2-1416

MINIFILM CAMERA CORPORATION

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Deduct trade-in allowance of my equipment ..... Price .....
Enclosed is balance due ..... Ship. Equipt.
C.O.D. for balance due ..... Rush your
FREE BARGAIN BULLETIN.
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lens equipment; 10-inch bellows extension; 2-lens reflex; eye-level and waist-level finders; reflex focusing; air trigger; control knob brings image into focus from 4 feet to infinity and focuses taking lens; hooded groundglass; lens swing mechanism; divided rotary back; also available in 4x5 size. All cameras adaptable to R70 Magazine taking 600 exposures on 100-foot load of 70-mm film. Prices from $355 to $562, depending on lens equipment.
MFR., Macvan Mfg. Co.

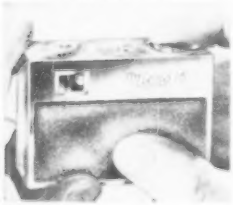
MAMIYA

Roll film size 120; 12 exposures 2¼x2¼; coated Xenar-type f/3.5 lens; shutter, speeds from 1 to 1/500 sec., T & B; built-in synchronization, eye-level finder; coupled single-window-type rangefinder; exposure counter; hyperfocal distance table; leather case included; automatic film transport; double exposure prevention device; automatic indicator; focusing arrangement moves the film plane within the camera while the lens remains stationary. Price, $95
DIST., Baco Accessories Co.

MERCURY II

Cartridge 35 mm; 65 exposures, ¾x1; 35-mm coated anastigmat triplet f/2.7 lens; depth of field scale; rotary metal shutter, speeds from 1/20 to 1/1000 sec., T & B; built-in synchronization; eye-level finder; scale and helical focusing; exposure counter; depth of field guide; exposure guide; Film minder. Price, $82.90 including tax; eveready case, $7.25. Available accessories include, interchangeable lenses, filters.
MFR., Universal Camera Corp.

MICRO 16

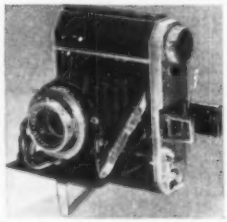


Cartridge 16 mm; 14 exposures, price of film includes processing with 2¼x3¼ prints; achromatic doublet f/8 lens; rotary shutter, 1/50 second speed; waist-level finder; fixed focus; exposure counter. Price, $19.95 including tax; eveready case, $2.95. Accessories include finder, viewer, and tripod.
MFR., Wm. R. Whittaker Co., Ltd.

MINOLTA 35

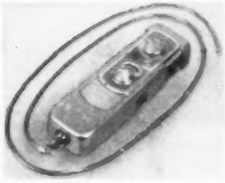
Cartridge 35 mm; up to 36 exposures, 1x1½; 45-mm coated Tessar-type f/2.8 lens, interchangeable; focal-plane shutter, speeds from 1 to 1/500 sec., T & B; built-in synchronization; eye-level finder; coupled single-window-type rangefinder; depth of field guide; exposure counter; hyperfocal distance table and carrying case are regular equipment. Also has automatic double-exposure prevention with automatic film transport and shutter wind. Price, $150. Accessories include filters and lens shade.

SEMI-MINOLTA



Roll film size 120; 16 exposures 1⅝x2¼; 75-mm coated Rokkor f/3.5 lens; Konan-Rapid shutter, speeds from 1 to 1/500 sec. & B; eye-level finder; helical focus; exposure counter; hyperfocal distance table; depth of field guide; automatic double exposure prevention and automatic film transport, eveready case. Price, $45. Accessories include filter, lens shade.
DIST., Baco Accessories Co.

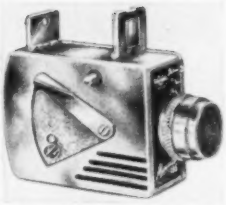
MINOX



Picture size 8x11 mm; 50-exposures in daylight loading cartridge; camera size, 9/16x1x3⅛"; automatic simultaneous shutter winding and film transport; exposure counter; 2 built-in filters, orange and green; focus from 8 inches to infinity; direct viewfinder with automatic parallax correction; metal curtain-type shutter with speeds from 1/2 to 1/1000 sec., T & B; coated 15-mm f/3.5 5-element lens. Price, $165 plus tax; leather case, $3. 50-exposure cartridge, $.99; chain attachment, $3.
DIST., Minox, Inc.

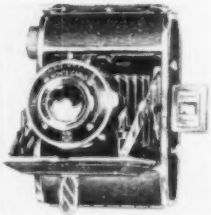
MINUTE-16

Sub-miniature; 14 exposures on double-frame 16-mm film; magazine loading; coated 1.3-inch achromat doublet f/6.3 lens; variable apertures behind-the-lens shutter, preset at 1/50 sec.; eye-level finder; built-in flash synchronization; built-in lens



shade; automatic film transport; automatic exposure counter with manual reset; all-metal construction; camera size, 2⅝x1½x1; black-and-white and color films available. Price, $7.95 including tax. Accessories include case, flash unit, etc.
MFR., Universal Camera Corp.

MONTE CARLO SPORTSMAN 120



Roll film, size 120; 16 exposures, 2¼x1⅝; 75-mm Manar Anastigmat f/3.5 lens; Prontor II shutter; speeds, from 1 to 1/250 sec., T & B; delayed action, self-timer; built-in synchronization; eye-level finder; helical focusing; built-in automatic exposure calculator. Price, $63.75, including tax; eveready case, $7
MFR., J. L. Galef & Son, Inc.

MYCRO MYRACLE II

Sub-miniature using special 16-mm roll film; 10 exposures, 14x14 mm; 20-mm anastigmat f/4.5 lens; stops down to f/11; rim-set shutter with speeds from 1/25 to 1/100 sec., B; built-in eye-level finder; fixed focus; eveready case. Price, $12.50 including tax. Accessories include tripod, lens shade, filters.
DIST., Mycro Camera Co., Inc.

NATIONAL ONE-SHOT TRICOLOR STUDIO DE LUXE

Color camera, 1-shot type; sheet film, plates, 5x7; coated 12-inch Goerz Artar f/9 lens in removable lens board; Ilex Acme Synchro No. 3 shutter with speeds from 1 to 1/200 sec., T & B; built-in synchronization for all lamps; manual focusing; groundglass back; 17½" bellows; built-in filters; high-efficiency Pellicle mirrors; horizontal tripod adapter. Price, $1198.78 including tax; leather-covered chest, $21. Accessories include film holders and plate holders.

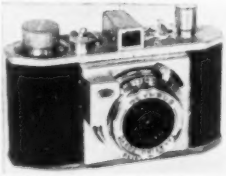
NATIONAL ONE-SHOT TRICOLOR FEATHER-WEIGHT

Color camera, 1-shot type; sheet film, packs, plates, 3¼x4¼; coated 8¼-inch Goerz Dogmar f/4.5 lens; screw mount; Ilex Acme Synchro No. 4 shutter with speeds from 1 to 1/150 sec., T & B; built-in synchronization for all lamps; 11¼" bellows; nonparallax eye-level finder; manual focus; groundglass back; coupled rangefinder; built-in filters; Pellicle mirrors; horizontal tripod adaptor. Price, $996.90 including tax; leather-covered chest, $18.50
MFR., National Photocolor Corp.

NICCA III

Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Nikkor f/2 lens; focal-plane shutter with speeds from 1 to 1/500 sec.; built-in eye-level finder; coupled rangefinder; exposure counter; automatic film stop; double exposure prevention device; rewinding device; eveready case. Price, $215; with coated 50-mm Nikkor f/3.5 lens, $145.

OLYMPUS I



Cartridge 35 mm; about 20 exposures, 24x32 mm; coated 40-mm Zuiko f/3.5 lens; compur-rapid-type shutter with speeds from 1 to 1/500 sec., T & B; built-in synchronization; exposure counter; double exposure prevention device; eye-level finder. Price, with carrying case, $49.50 including tax.
DIST., General Photographic Supply Co.

PETAL

Sub-miniature about size of 50-cent piece; uses special load; 6 expo-

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Now you can carry your favorite pictures with you . . . sparkling full-color prints from your favorite transparencies in handy wallet size! Let the painstaking care of our highly skilled craftsman capture forever the brilliant colorings of your finer shots . . . individual attention and modern, scientific equipment faithfully reproduce properly exposed transparencies of all sizes. Over-exposed or under-exposed transparencies are printed for best possible reproduction.

WALLET SIZE

20¢ each

2½ x 3½ each	.30	4 x 5 each	.65
3½ x 3½ each	.40	5 x 7 each	1.25
3¼ x 4 each	.50	8 x 10 each	2.50

35 MM COLOR DUPLICATES .25

ANSCO and EKTACHROME color rolls developed $1.00 each

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LIFE Color LABS

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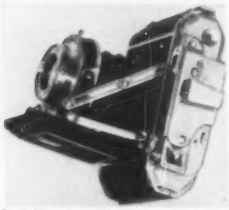
SPECIALISTS TO CANDID WEDDING PHOTOGRAPHERS

sures, 3/16" diameter; f/5.6 lens; single-action shutter set at 1/50 sec., & B; eye-level finder; fixed focus. Price, $9.95. Case, $1.
DIST., Mycro Camera Co., Inc.

PETRI MODEL 4

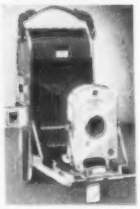


Roll film size 120; 12 exposures, size 2¼x2¼; 75-mm coated f/3.5 Anastigmat lens in Petri Compur shutter, speeds from 1 to 1/200 sec., T & B; delayed action; eye-level and waist-level finders; helical focusing; coupled rangefinder. Price, with eveready case, $48. Accessories include slip-on lenses, lens shade, filters, etc.
DIST., General Photographic Supply Co.

PIXIE FLASH

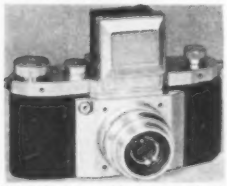
Sub-miniature; uses special 16-mm film; 16 exposures; 1-inch doublet f/6.3 lens; rotary-disc type shutter set at 1/50 sec.; built-in flash synchronization; eye-level finder; fixed focus; exposure counter. Price, $7.95. Suede pouch with zipper, $.98.
MFR., Wm. R. Whittaker Co., Ltd.

POLAROID LAND MODEL 95



Folding camera uses special roll film; 8 pictures, 3¼x4¼; coated 135-mm triplet f/11 lens; coupled to shutter for single setting exposure adjustment; built-in synchronization; eye-level finder; scale focusing; camera designed for Land 1-step, one minute pictures. Film and camera matched for simplicity and versatility. Price, $89.75 including tax; case, $14.95.
MFR., Polaroid Corp.

PRAKTIFLEX II



Cartridge 35 mm; 36 exposures, 1x1½; single-lens reflex; coated 50-mm Zeiss Tessar f/3.5 lens; focal-plane shutter with 7 speeds up to 1/500 sec., B; built-in focusing magnifier; double exposure prevention device; interchangeable lens; exposure counter. Price, $72.50; case, $7.
DIST., Ocean Photo Supply Co.

PRAKTIFLEX SYNCHRO MODEL

Cartridge 35 mm; 36 exposures, 1x1½; single-lens reflex; 50-mm Victar anastigmat f/2.9 lens; depth of field scale; focal-plane shutter, speeds from 1/25 to 1/500 sec., and B; built-in synchronization for Class FP lamps; eye-level finder; reflex focus; exposure counter; depth of field guide; eveready case. Price on request. Full line of accessories.
DIST., Sterling-Howard Corp.

PRIMAR REFLEX

Roll film size 120; 12 exposures, 2¼x2¼; single-lens reflex; coated 105-mm Zeiss Tessar f/3.5 lens; focal-plane shutter with speeds from 1 to 1/1000 sec., T & B; delayed action; built-in synchronization; reflex focusing; exposure counter; depth of field guide; magnifier on reflex viewfinder. Price, $295; case, $17.50. Accessories include wide-angle and telephoto lenses; flash unit; sheet film holder; extension tubes; adapters.
DIST., Ercona Camera Corp.

RAMLOSE 4x5 MODEL A

Sheet film, film packs, 4x5; press-view-type camera; optional lens equipment; 15-inch bellows extension; eye-level and wire frame finders; revolving back; full swings and tilts; multiple infinity stops. Price, $87.50. All standard press camera accessories are available as accessories.
MFR., Ramlose Photographic Equipment Co.

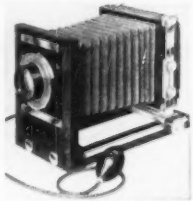
RECTAFLEX

Cartridge 35 mm; up to 36 exposures, 1x1½; single-lens reflex type; coated 50-mm Schneider Xenon f/2 lens; depth of field scale on lens mount; interchangeable lenses in bayonet mounts; focal-plane shutter with speeds from 1 to 1/1000 sec.; built-in flash synchronization; helical focusing; exposure counter; reflex viewer with Duo-Prism focuser in viewing system. Price, $295 including tax; with coated 50-mm Angenieux f/2.9 lens, $250.
DIST., Director Products Corp.

REFLEKTA II

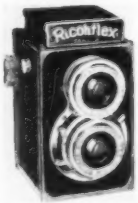
Roll film size 120 or 620; 12 exposures, 2¼x2¼; twin-lens reflex with coated 3-inch Meritar anastigmat f/3.5 lens; Velax shutter with speeds from 1/10 to 1/200 sec., B; built-in synchronization; waist-level finder; reflex focusing; depth of field guide; body release; double exposure prevention device; eveready case. Price, $69.50 including tax.
DIST., Ercona Camera Corp.

REMBRANDT PORTRAIT



Sheet film, packs; 5 models available to handle film sizes from 2¼x3¼ to 5x7; Model IV for 4x5 film has sliding carriage back, making 2 2½x4 exposures; Model V has 5x7 sliding back, making 2 3½x5 exposures; bellows draw from 4 to 15"; rack-and-pinion focusing; focusing lock; rise, fall and tilt adjustment on camera back; camera uses 6x6" lensboard; designed to accept 2¼" opening Packard shutter. Prices range from $69.50 to $99.50.
MFR., Burke & James, Inc.

RICOHFLEX



Roll film size 120; 12 exposures, 2¼x2¼; twin-lens reflex; 75-mm Ricoh anastigmat f/3.5 taking and viewing lens; gear coupled; shutter speeds from 1/25 to 1/100 sec., B; built-in synchronization; waist-level finder; reflex focusing; tubular film counter window; tripod socket. Price, $39.95; eveready case, $7.50.
DIST., General Photographic Supply Co.

RILEX B

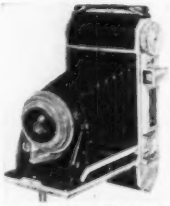
Sheet film, film pack, 2¼x3¼; press-view-type camera; aluminum construction; optional lens equipment; bellows extension, 9 inches;

collapsible wire-frame-type finder; groundglass back; lens board has full swings and tilts; revolving back; interchangeable lens board; handle for hand-held shooting; optional rangefinder equipment. Price, less lens, $49.50, including tax.
MFR., Riley Research Corp.

ROBOT II

Cartridge 35 mm; 50 exposures 1x1"; 37.5-mm Schneider Xenar f/2.8 lens; special Robot zonal focusing system; Robot focal-plane type shutter; speeds from 1/2 sec. to 1/500 sec., & B; built-in synchronization; eye-level finder; helical focus; exposure counter; depth of field guide; safety catch on release; interchangeability of lenses. Noted for rapid sequence photography. Price, $160; with 40-mm Schneider Xenon f/1.9 lens, $200; eveready case, $10. Complete line of accessories.
DIST., Burleigh Brooks Co.

ROAMER I



Roll film size 120 or 620; 8 exposures, 2¼x3¼; 110-mm coated achromat doublet f/11 lens; self-cocking shutter, 1 & B; built-in synchronization; eye-level finder; helical focus; accessory shoe clip. Price, $29.75 including tax. Eveready case, $7.50.

ROAMER II

Roll film size 120 or 620; 8 exposures, 2¼x3¼; 100-mm coated anastigmat triplet f/4.5 lens; Universal Synchromatic shutter, speeds from 1/25 to 1/200 second & B; built-in synchronization; eye-level and waist-level finders; helical focusing; accessory shoe clip. Price, $48 including tax; eveready case, $7.50.

ROAMER 63

Same as Roamer II, but with coated 100-mm anastigmat triplet f/6.3 lens. Price, $38 including tax; eveready case, $7.50.
MFR., Universal Camera Corp.

ROLLEICORD (1950)

Roll film size 120; 12 exposures, 2¼x2¼; 2-lens reflex; coated 75-mm Zeiss Triotar f/3.5 lens; depth of scale; Compur Rapid shutter with speeds from 1 to 1/500 sec., B; eye-level and waist-level finders; reflex focusing; exposure counter; depth of field guide; cable release socket; built-in

synchronization with plug-in unit on front panel; eveready case. Price, $130 including tax; with coated 75-mm Schneider Xenar f/3.5 lens, $140. Accessories include slip-on lenses, film adapters, filters, etc.

ROLLEIFLEX AUTOMATIC (1950)

Roll film size 120; 12 exposures, 2¼x 2¼; 2-lens reflex; coated 75-mm Zeiss Tessar f/3.5 lens; depth of field scale; Compur Rapid shutter with speeds

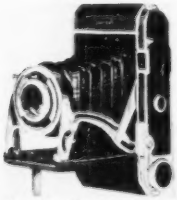
from 1 to 1/500 sec., B; delayed-action timer; built-in synchronization; eye-level and waist-level finders; large magnifier with cover plate encloses focusing hood; toggle-spring hinge on hood; reflex focusing; exposure counter; impossible to make double exposures; body release provided with cable release socket; eveready case with toggle-spring action; lens cap and cable release. Price, $275 including tax; with coated 75-mm Schneider Xenar f/3.5 lens, $245. Complete line of accessories available.

ROLLEIFLEX AUTOMATIC f/2.8 MODEL

Similar to the Automatic 1950 model in features; slightly thicker front to back; weighs 3¼ oz. more; 80-mm Zeiss Tessar f/2.8 taking lens with viewing lens to match; Compur Rapid shutter has speeds up to 1/400 sec. Price, including case, lens cap, and excise tax, $325.

DIST., Burleigh Brooks Co.

ROYER



Roll film size 620; 8 exposures, 2¼x 3¼; coated 105-mm Berthoit anastigmat f 4.5 lens in Prontor II shutter with speeds from 1/10 to 1/200 sec., B; delayed action; built-in synchronization; depth of field scale; built-in eye-level finder; manual focusing; double exposure prevention device. Price, $49.50. Accessories include slip-on lenses, filters, lens shade, etc.

DIST., General Photographic Supply Co.

RUBINA-SIXTEEN II

Sub-miniature; uses special 16-mm load; 30 exposures; 10x15 mm; coated 25-mm anastigmat f/3.5 lens; rim-set shutter with speeds from 1/25 to 1/100 sec., B; built-in eye-level finder; helical focusing; eveready case. Price, $29.50 including tax. Complete line of accessories available.

DIST., Mycro Camera Co., Inc.

SEMFLEX

French twin-lens reflex camera; 75-mm Angenieux f/4.5 taking lens; f/2.8 viewing lens; Compur-type shutter with speeds from 1 to 1/400 sec., B; eye-level finder; magnifier; eveready case. Price, $135.

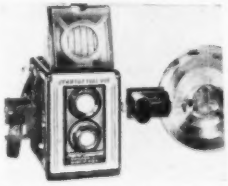
DIST., General Photographic Supply Co.

SHARP SHOOTER

Roll film size 120; 8 exposures, 2¼x3¼; meniscus lens in rotary shutter; 1/40 second shutter speed and B; waist-level finder; all metal construction. Price, $4.95, including tax.

MFR., Pho-Tak Corp.

SPARTUS FULL-VUE



Roll film size 120; 12 exposures, 2¼x2¼; 100-mm meniscus f/16 lens; rotary-type shutter, speed 1/60 second & T; reflex-type finder; fixed focus; shoulder strap. Price, $9.98 including tax; case, $3; flash unit, $2.50.

SPARTUS PRESS FLASH

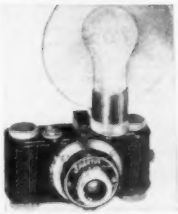
Roll film size 120; 8 exposures, 2¼x3¼; 120-mm meniscus f/16 lens; rotary-type shutter, speed 1/60 sec-

ond; built-in test unit for flash synchronization; eye-level finder; fixed focus; built-in flash reflector; with 4 flashbulbs. Price, $14.95 including tax; case available at $4.

SPARTUS FOLDING CAMERA

Roll film size 127; 8 exposures, 1⅝x2½; 78-mm meniscus f/16 lens; rotary-type shutter, speed 1/50 second & T; eye-level finder; fixed focus. Price, $8.95 including tax; case available for $2.

SPARTUS 35F

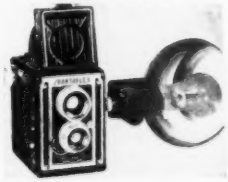


Cartridge 35 mm; up to 36 exposures, 1x1½; 50-mm achromatic f/7.7 lens; built-in synchronization; rotary-type shutter, speeds 1/60 sec. & T; built-in filter; exposure counter; eye-level finder; helical focus. Price, $14.95 including tax; eveready case, $3.50; flash unit, $2.50.

SPARTUS 35 f/3.5

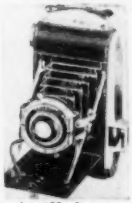
Similar to the 35F model, except has 50-mm coated Anastigmat f/3.5 lens; micrometer focusing mount; 8 apertures to f/22; built-in eye-level finder; shutter speeds from 1/25 to 1/150 sec., T & B; helical focusing; cable release socket; eveready case. Price, $29.50 including tax.

SPARTAFLEX



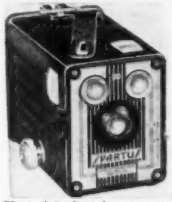
Roll film size 120; 12 exposures 2¼x2¼; 2-lens reflex; taking lens, 100-mm coated achromat f/7.7; rotary-type shutter; 1/60 sec. & T; depth of field scale; built-in synchronization; waist-level and sports-type finders; reflex focusing; depth of field guide; includes flash unit and eveready case. Price, $25 including tax.

SPARTUS 4 FOLDING CAMERA



Roll film size 120; 8 exposures, 2¼x 3¼; meniscus lens; 3 apertures, f/11, f/16, f/22; rotary-type shutter; built-in synchronization; built-in eye-level finder; fixed focus; I & B shutter settings. Price, $14.95 including tax; flash unit, $2.50; case, $2.50.

SPARTUS BOX CAMERAS 116 & 120



No. 20 model gives 8 exposures, 2¼x 3¼, on 120 roll film; No. 116 model gives 8 exposures, 2½x4¼, on 116 or 616 roll film; both have meniscus lens; 2 waist-level viewfinders; single-action shutter; I & T shutter settings; fixed focus. Price, No. 120, $3.95 including tax; No. 116, $5.95 including tax; case, $2.

MFR., Spartus Camera Corp.

SPECTATOR 120 FLASH

Roll film size 120; 8 exposures, 2¼x 3¼; 110-mm Zellar lens; Pho-Tak shutter with I & T settings; built-in synchronization; flash unit; built-in eye-level finder; body release; all-metal construction. Price, $6.95 including tax.

MFR., Pho-Tak Corp.

STAR-D REFLEX

Roll film size 620; 12 exposures, 2¼x 2¼; 9 exposures on color film; 2-lens reflex; coated 75-mm Wollensak anastigmat f/4.5 lens; depth of field

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35mm Reflex Camera

with Zeiss Tessar f3.5 'T' Coated Lens $114.50
with Zeiss Biotar f2 'T' Coated Lens 182.50
Leather Eveready Case 7.50

Flash Synchronized shutter ... interchangeable lens ... speeds from 12 sec. to 1/1000th ... and many other features.

The TONE

IT'S FUN WITH MINI-MINIATURES

$8.75

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- f3.5 lens . . . 3 speeds to 1/100th sec. . . . case.
- Black & White Film, 10 exp. per roll ..... 6 rolls for 79c

(Approx. shp. wt.—1 lb.)

The STEKY II

$14.95

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f3.5 lens . . . case . . . filter 3 speeds to 1/100th sec. . . . for color and black-and-white.

Color Film 24 exp. roll $1.00
B & W Film 24 exp. roll .... .75

(Approx. shp. wt.—1 lb.)

LATEST MODEL PRAKTIFLEX II

35mm Reflex

with Zeiss Tessar f3.5 'T' Coated Lens $72.00
Leather Eveready Case 7.50

Interchangeable lens . . . speeds from 1/25th to 1/500th sec . . . double exposure prevention . . . and other features.

Accessories:
Extension Tube Set—3 tubes: 10, 20 and 30 mm 7.50
Microscope Adapter 12.50

KINE EXAKTA

LENSES AND ACCESSORIES

Meyer WA 40mm f4.5 ..... $89.50
Elgeet Mini-Tel 4 inch f4.5 ctd. 42.50
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Xenar 135mm (5¼") f3.5 ... $89.50
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Tele-Xenar 30 cm (12") f5.5 129.50
Tele-Xenar 36 cm (14") f5.5 149.50

Note: All above lenses are in focusing mounts.

Extension Tube Set—3 tubes: 10, 20 and 30mm, and adapters ... $15.75
Microscope Adapter Set—includes 2 tubes: 15 and 30 mm. 21.50
Prismatic Finder—a Zeiss reflecting prism, housed in Ot Kine focusing hood . . . permits eye-level focusing and viewing . . . for sports and action photography 48.00

New Low Prices for these Brand New Cameras

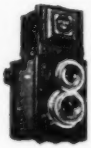
ARGUS C3

Only $52.95

Coated f3.5 lens and Flash Unit

ARGOFLEX EF

Twin-Lens Reflex



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Coated f4.5 lens and Flash Synchro Shutter.

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New TRIPOD SCREENS

Crystal beaded fabric ... portable stands ... rubber tipped feet ... carrying handle.

Size	Value	Approx. Ship. Wt.	Special
30x40	$14.75	10 lbs.	$6.89
40x40	17.25	11 lbs.	8.45
37x50	19.00	13 lbs.	9.89

All-metal SAFELIGHT LAMP

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With three 5x7 safelight filters, for papers and films . . . bracket yoke for easy mounting. 10 w. bulb, extra 17c. (approx. ship. wt. 5 lbs.)

Last Call! The Cycon

Brilliant Mini-Spotlight

Reg. $15.50 less bulb

Special $6.95 less bulb

Bulbs for Cycon:
200 watt . $1.60 150 watt . $1.40
100 watt . $ .98

Adapter for mounting Cycon on standard ⅛" light-stand rod 49c

PENN'S Carryall GADGET BAGS

Genuine Top Grain Cowhide

8 x 10 x 3 inches
A $12.50 Value

Penn Priced at $6.95

Internal Compartments ... roomy outer pocket ... shoulder strap. (Approx. ship. wt. 2½ lbs.)

ADOX II

35mm Camera

Schneider Xenon f2 lens Compur Rapid Shutter. Speeds from 1 to 1/500th sec. Uses standard 35mm cartridges.
A $90.00 Value

Penn Priced at $49.50

With f2.9 lens in Flash Prontor with speeds from 1/25th to 1/200th second ... $27.95

The New DA-BRITE FILM CHESTS

Durable pressed steel ... hammerloid smooth baked enamel finish ... piano hinged cover and piano hinged drop-front ... snap lock and carrying handle.

For 8mm
No. 8-200
Capacity:
13—200 foot reels in cans
Value $5.00
$2.29
(Approx. ship wt.—8 lbs.)

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Capacity:
12—reels in cans adjustable for 200, 300 and 400 foot sizes.
Value $6.00
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12—400 foot reels in cans
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SPECIAL!
8mm 200 ft. Reel & Can Combinations. 3 Combinations for $1.00.

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Features "Duo-Focus", the exclusive two-purpose single-eyepiece finder which embodies all the advantages and conveniences of reflex focusing . . . plus the simplicity and accuracy of the coupled rangefinder. Parallax is entirely eliminated . . . depth-of-field visually controlled . . . composition simplified . . . and critically sharp focus obtained regardless of light or lens aperture.

Exclusive RECTAFLEX "Duo-Focus" Finder

- Interchangeable lenses, including 50mm Schneider Xenon F2 and 50mm Angenieux F2.9.
- Mount provides helical focusing so that the lens moves in and out without turning.
- Focal plane shutter provides speeds from 1 full second to 1/1000th second, and speed selection may be made before or after winding of film transport. All speeds selected on one dial.
- Flash contacts are built into the shutter for use with either flash bulbs or electronic flash.
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$295.00 With Schneider Xenon Coated F2 Lens **$250.00** With Angenieux F2.9 Coated Lens

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TESTRITE Elevator Tripod with Pan-Tilt Head

Regular $19.95
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A rigid all-metal unit equipped with Centerpost Elevator for smoothly raising and lowering camera with friction drive hand crank. Sturdy Pan-Tilt Head is calibrated in degrees of rotation and may be independently locked for each type of movement. Extends to 6 feet, closes to 36 inches and weighs only 5 lbs. (approx. ship. wt. 8 lbs.)

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Simple, efficient device for accurate exposure. For film speeds to 200 A.S.A., color or black-and-white . . . instructions, film speed table and neck cord. (Case, 15¢ extra) (approx. ship. wt. 1 lb.)

Famous Make All-metal SLIDE FILE

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MODEL C
With condensers, less Lens **$25.95**
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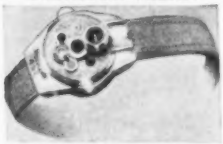
scale on viewing lens barrel; Alphax shutter with speeds from 1/25 to 1/150 sec., T & B; built-in synchronization; eye-level finder; waist-level finder complete with Hartley Field lens; depth of field guide; reflex focusing; taking and viewing lenses, gear coupled. Price, $53.95 plus tax.
MFR., Davidson Mfg. Co.

STEINECK A.B.C.

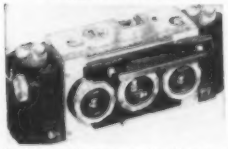


Sub-miniature; uses special film magazine giving 8 exposures; coated 12.5-mm Steinheil f/2.5 lens; rotary focal plane shutter set at 1/125 sec.; fixed focus; wrist-level and eye-level finders; complete with strap to wear on wrist as watch. Price, $150.
DIST., Ercona Camera Corp.

STEKY II

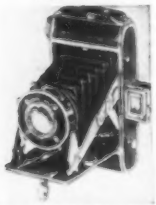
Sub-miniature using special magazine with 16-mm film; 24 exposures, 10x14 mm size; 25-mm Stekinar Anastigmat f/3.5 lens; behind-the-lens shutter with speeds from 1/25 to 1/100 sec., & B; eye-level finder; fixed focus; automatic film counter; all metal construction; built-in filter. Price, including eveready case and lens cap, $19.95 including tax.
DIST., Wilmot Sales Corp.

STEREO REALIST



Cartridge 35 mm; up to 29 sets of stereo exposures; two-lens stereoscopic camera; 35-mm coated Ilex Paragon f/3.5 lens; ring set, gear-retarded shutter; speeds from 1 sec. to 1/150 sec., T & B; built-in synchronization; eye-level finder; scale focusing; coupled split field military-type rangefinder; hyperfocal distance table; depth of field guide; exposure counter. Price, $162.50; eveready case, $11.25.
MFR., David White Co.

TELKA II



Roll film size 120; 8 exposures 2¼x3¼; 90-mm Manar Anastigmat f/3.5 lens in Prontor II shutter with speeds from 1 to 1/200 sec., T & B; delayed action self timer; built-in synchronization; eye-level finder; helical focusing; built-in automatic exposure calculator; body release. Price, $63.75 including tax.

TELKA I

Similar to above model; equipped with 110-mm Manar Anastigmat f/4.5 lens in Prontor I shutter with speeds from 1/25 to 1/125 sec., T & B. Price, $49.95 including tax; eveready case for Telka cameras, $7.
MFR., J. L. Galef & Son, Inc.

TOWER 120

Roll film size 120; 8 exposures, 2¼x3¼; all-metal; 110-mm meniscus f/16 lens; leaf-type shutter with 1 & T settings; built-in flash synchronization; fixed focus; eye-level finder; detachable flash unit. Price, $4.89; without built-in synchronization and flash unit, $3.69.

TOWER 51

Roll film size 120 or 620; 8 exposures, 2¼x3¼; Crystar lens; single-blade shutter with 1 & B settings; built-in synchronization; body release; accessory clip for flash unit; built-in eye-level finder. Price, $14.95 including tax; flash unit, $2.79; case, $2.29.

TOWER 50

Similar to 51 model but without built-in synchronization. Price, $9.95 including tax.

TOWER 34

Roll film size 120; 8 exposures, 2¼x3¼; meniscus lens; single-blade shutter with 1 & B settings; built-in eye-level finder; flash unit with polished reflector. Price, $8.45.
DIST., Sears, Roebuck & Co.

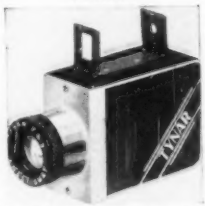
TRAVELOR 120

Roll film size 120; 8 exposures, 2¼x3¼; 110-mm Zeilar meniscus f/11 lens; single blade shutter with 1/50 second speed, & B; built-in synchronization; eye-level finder; fixed focus; body release. Price, $6.95 including tax; flash unit, $2.95.
DIST., Pho-Tak Corp.

TRU-VAL 45

Roll film size 120; 8 exposures or 16 with mask included with camera; coated 105-mm Schneider Radionar f/4.5 lens; screw mount; Prontor II shutter with speeds from 1 to 1/200 sec., T & B; delayed action; built-in synchronization for Class F & M lamps; eye- and waist-level finders; manual focusing. Price, $39.95 including tax; eveready case, $6.50; flash unit, $7.
DIST., Tru-Val Camera Exchange.

TYNAR



Sub-miniature using special magazine with 16-mm film; 14 exposures, 10x14 mm; 2-inch doublet f/6.3 lens; guillotine-type shutter set at 1/60 sec.; built-in synchronization; eye-level finder; fixed focus; exposure counter. Price, $7.95 including tax; case, $2.50. Flash unit available as accessory.
DIST., Phil Kalech Co.

UNIFLEX I

Roll film size 120 or 620; 12 exposures, 2¼x2¼; 75-mm coated anastigmat triplet f/5.6 lens; between-the-lens shutter, speeds from 1/25 to 1/200 sec., & B; built-in synchronization; eye-level direct vision finder; scale and reflex focusing; depth of field scale. Price, $55 including tax; eveready case, $9.95.

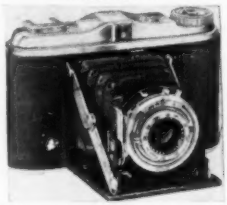
UNIFLEX II

Roll film size 120 or 620; 12 exposures, 2¼x2¼; 75-mm coated anastigmat triplet f/4.5 lens; depth of field scale; between-the-lens shutter, speeds from 1/10 to 1/200 sec., T & B; built-in synchronization; direct vision finder; scale and reflex focusing. Price, $75 including tax; eveready case, $9.95.
MFR., Universal Camera Corp.

VENTURA DELUXE

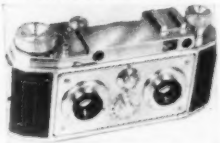
Roll film size 120; 12 exposures, 2¼x2¼; coated 85-mm Apotar anastigmat f/4.5 lens; Prontor S shutter with speeds from 1 to 1/300 sec., T & B; delayed action; built-in synchronization; built-in eye-level finder; manual focusing; body release; Red Dot double exposure prevention device; locking device for T exposures; accessory clip. Price, $49.95 including tax. Eveready case available as accessory.

VENTURA



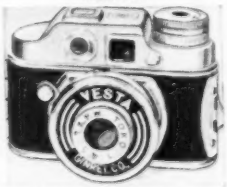
Roll film size 120; 12 exposures, 2¼x2¼; coated 84-mm Agnar anastigmat f/4.5 lens; Vario shutter with speeds from 1/25 to 1/200 sec., B; built-in synchronization; built-in eye-level finder; manual focusing; instant shutter release lever. Price, $35. Eveready case available as accessory.
DIST., Alfa Photo Corp.

VERASCOPE F-40



Cartridge, 35 mm; stereoscopic camera; 30 exposures, 30x24 mm in stereo pairs, or 40 exposures, 30x24 mm in single shots; coated 40-mm Berthiot f/3.5 lens; guillotine-type shutter, speeds from 1 sec. to 1/250 sec., T & B; eye-level finder; rangefinder focusing; exposure counter; double exposure prevention device. Price, $350 including eveready case.
DIST., A.G. Photo Co.

VESTA



Sub-miniature using special 16-mm roll; 10 exposures; 20-mm Toko f/4.5 lens; Vario-type shutter with 1/50 sec. & B settings; built-in eye-level finder; fixed focus; eveready case. Price, $7.95 including tax.
DIST., Camera Specialty Co.

VIDAX

Roll film size 120 or 620; sheet film, film-packs, size 2¼x3¼; 8, 12 or 16 exposures on roll film, 2¼x3¼ down to 1¾x2¼; interchangeable lens; choice of Wollensak Raptar, Kodak Ektar, or Zeiss Tessar; focal lengths from 3½ to 5 inches; lens speeds from f/3.5 to f/6.8; all lenses coated; shutter speeds from 1 to 1/400 sec., T & B; built-in synchronization; double-extension bellows; eye-level finder; scale and manual focusing; coupled rangefinder with one window for range- and viewfinders; exposure

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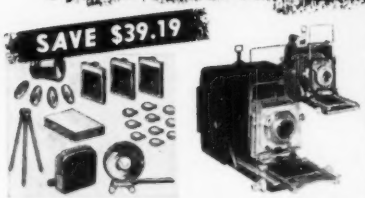

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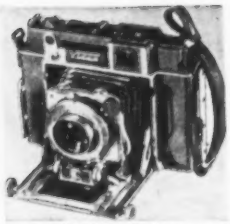


counter dial for roll film arranged for measuring 8 or 16 exposures; variable rangefinder can be adjusted by knob to synchronize focus with lenses from 65 to 127 mm; interchangeable back compartments; built-in adjustable framing device to get 8, 12, or 16 exposures on 120 film. Price, without lens, $180; with 101-mm f/4.5 Raptar in Synchro shutter, $242; with 101-mm Ektar f/4.5 in Supermatic shutter, $235; with 105-mm Ektar f/3.7 lens, $265. All prices include tax. Accessories include adapter backs for sheet film and film-packs.

MFR., Vidmar Camera Co.

VOIGTLANDER BESSA 69

Roll film size 120; 8 exposures, 2¼x 2¼; coated 101-mm Vaskar f/4.5 lens; depth of field scale; Prontor S shutter with speeds from 1 to 1/250 sec., T & B; built-in synchronization for class S lamps; eye-level finder; manual focusing; depth of field guide. Price, $49.50 including tax; eveready case, $8.50; camera with coated 101-mm Voigtlander Color-Skopar f/3.5 lens in Compur Rapid shutter with speeds from 1 to 1/400 sec., T & B; built-in synchronization, $72.50 including tax.

VOIGTLANDER BABY BESSA 66

Roll film size 120; 12 exposures 2¼x 2¼; coated 75-mm Vaskar f/4.5 lens; depth of field scale; Prontor S shutter with speeds from 1 to 1/300 sec., T & B; delayed action; built-in synchronization for Class S lamps; eye-level finder; manual focusing; depth of field guide. Price, $49.50; case, $7.50; with coated 75-mm Color Skopar f/3.5 lens; depth of field scale; Compur Rapid shutter with speeds from 1 to 1/500 sec., T & B; delayed action; built-in synchronization, $64.50.

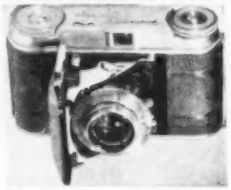
VOIGTLANDER RANGEFINDER BESSA II

Roll film size 120; 8 exposures, 2¼x 2¼; coated 105-mm Color-Skopar f/3.5 lens; depth of field scale; Compur Rapid shutter with speeds from 1 to 1/400 sec., B; delayed action; built-in synchronization for Class S lamps; built-in eye-level finder; manual focusing; coupled, one-window-type rangefinder; depth of field guide. Price, $115; case, $8.50; with coated 105-mm Color Heliar f/3.5 lens in Compur Rapid shutter, $152.50.

VOIGTLANDER BRILLIANT V6

Roll film size 120; 12 exposures, 2¼x 2¼; coated 75-mm Vaskar f/4.5 lens; depth of field scale; Prontor II shutter with speeds from 1 to 1/175 sec., T & B; delayed action; eye- and waist-level finders; reflex focusing; depth of field guide. Price, $39.50; case, $8.50.

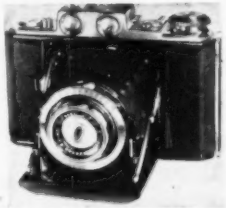
VOIGTLANDER VITO



Cartridge 35 mm; up to 36 exposures, 1x1½; coated 50-mm Color-Skopar f/3.5 lens; depth of field scale; Compur Rapid shutter with speeds from 1 to 1/500 sec., T & B; delayed action; built-in synchronization for class S lamps; built-in eye-level finder; manual and scale focusing; exposure counter; depth of field guide. Price, $64.50; case, $6.75; with f/3.5 Color-Skopar lens in Prontor S shutter with speeds from 1 to 1/300 sec., T & B; built-in synchronization, $57.50.

DIST., Willoughbys, Inc.

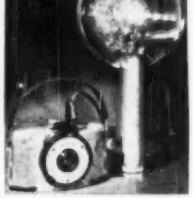
WELLMY



Roll film size 120; 12 exposures 2¼x 2¼; 75-mm Torionar f/3.5 lens; shutter speeds from 1 to 1/200 sec., B; body release; accessory rangefinder fits in clip on top of camera; built-in finder. Price, with case, $49.50.

DIST., General Photographic Supply Co.

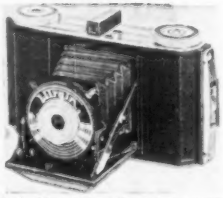
WINPRO 35 SYNCHRO FLASH



Cartridge 35 mm; up to 36 exposures, 1x1½; 40-mm Crystar doublet f/8 lens; between-the-lens shutter, speed 1/50 sec., & B; built-in synchronization; eye-level finder; fixed focus; exposure counter. Price, including tax, $12.95; eveready case, $2.69.

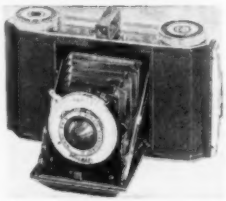
MFR., Webster Industries, Inc.

WIRGIN 11



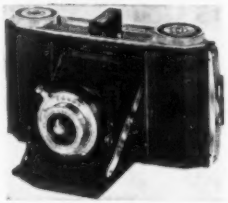
Roll film size 120; 12 exposures, 2¼x2¼; 75-mm coated Meniscar lens; fixed focus; light-tight hinged back; self-erecting bellows; built-in flash synchronization; eye-level finder. Price, $17.95 plus tax; flashing unit, $3.98, plus tax.

WIRGIN 45



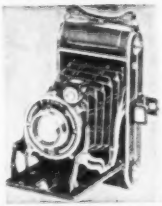
Roll film size 120; 12 exposures, 2¼x2¼; 75-mm coated Wirgin Anastigmat f/4.5 lens; shutters speeds from 1/25 to 1/125 sec., T & B; other features and make-up similar to the above model. Price, $34.50 plus tax; Wirgin flashing unit, $6.98.

WIRGIN 51



Identical to the Wirgin 45, except has coated 75-mm Wollensak Velostigmat f/4.5 lens; shutter speeds from 1/25 to 1/150 sec., T & B; swing-out roll holders to ease loading; two tripod sockets. Price, $39.50 plus tax; Wirgin flashing unit, $6.98, plus tax.

WIRGIN PRESTO 120



Roll film size 120; 8 exposures 2¼x 3¼ or 16 exposures, 1⅝x2¼ with film mask supplied with camera; coated 4¼-inch Schneider Radionar f/4.5 lens; Vario shutter with speeds from 1/25 to 1/100 sec., T & B; built-in synchronization; eye- and waist-level finders; manual focusing; body release. Price, $32.50; eveready case, $6.75; camera with Schneider lens in Prontor shutter with speeds from 1/25 to 1/200 sec., T & B; delayed action; built-in synchronization, $34.75.

DIST., Camera Specialty Co., Inc.

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MOVIE CAMERAS

APOLLO 8

8 mm. silent; capacity 25 ft. double width; 12, 16, 24, 32, and 48 frames per second; guillotine shutter; 1/30 sec. shutter speed at 16 frames per second; spring drive, useful run 6 ft.; rundown stop; external dial footage indicator; built-in eye-level finder; interchangeable lenses; coated 12½-mm Exclar f/2.5 lens; built-in lens shade; screw mount; universal focus; slack film take-up; continuous-run lock, and safety lock. Price on request.

MFR., Excel Movie Products.

AURICON CINE-VOICE

16 mm sound-on-film recording camera; records sound track and picture on same film at same time; black-and-white or color film; 100-foot capacity; 24 frames per second rotary shutter with 175° angle; 1/50 sec. shutter speed at 24 frames per second; electric motor drive; film arm indicator; large picture optical finder with parallax correction and lens mattes; focusing by lens calibration; interchangeable; 3-lens turret available; uses C-mount type lens. Price, $695 including tax; luggage type case included with camera. Accessories include tripods, qual-phono turntable, microphone stands, synchronous motor, etc.

AURICON-PRO

16 mm sound-on-film recording camera; designed to record both sound and picture on the same film, at the same time; black-and-white or color film; camera is completely silent in operation; records 5½ minutes of talking pictures continuously if desired; driven by synchronous electric motor; can be operated independent of power lines by means of portable power supply. Price on request.

MFR., Berndt-Bach, Inc.

B & H SPORTSTER

8 mm silent; 25 ft. capacity double width; camera speeds, 16, 24, 32, 48, and 64 frames per second; 133° angle rotary disc shutter; 1/35 sec. shutter speed at 16 frames per second; spring motor drive; rundown stop; spring run 5 ft.; dial footage indicator; built-in eye-level finder; interchangeable lenses; B&H coated 5-inch f/2.5 lens in bayonet mount; universal focus; single exposure device; built-in exposure guide; masks; wrist cord; automatic film gate. Price, $99.75 including tax; sheath-type case, $8.70; candid-type case, $9.50; combination case, $18.30. Accessories include filters and interchangeable lenses: ½-inch f/1.9; ½-inch f/1.4; 1-inch

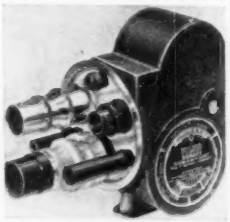
f/1.5; 1-inch f/1.9; 1½-inch f/3.5; 2-inch f/1.4; and 2-inch f/3.5.

B & H COMPANION

Similar to the Sportster in design and features except has B&H coated .5-inch f/2.5 lens; camera speeds, 8, 16, 24, and 32 frames per second. Price, $89.83 including tax. Accessories, including cases and interchangeable lenses, same as Sportster, plus viewfinder masks.

B & H TRI-LENS 8

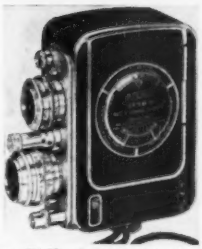
8 mm silent; 25 ft. capacity double width; 16, 32, 48, and 64 frames per second; 133° angle rotary disc shutter; rundown stop; spring run 5 ft.; dial footage indicator; spring motor drive; positive optical built-in eye-level finders that ride around with lenses on turret; 3-lens turret; B&H coated 12½-mm f/2.5 lens in screw



mount; universal focus; built-in lens shade; built-in exposure guide; single exposure device; direct focuser; automatic film gate. Price, $137.50 including tax; case, $21.80. Available interchangeable lens same as Sportster.

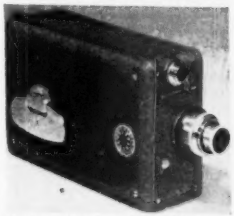
B & H AUTO-8

8 mm silent; magazine load; 25 ft. capacity, double width; 16, 24, 32, 48, and 64 frames per second; 133° angle rotary disc shutter; 1/35 sec. shutter speed at 16 frames per second; spring motor drive; indicator alarm; spring run 9 ft.; dial and visible pointer in viewfinder for footage indication; positive optical built-in eye-level finder; 2-lens turret; B&H coated 12½-inch f/2.5 lens in screw mount; universal focus; built-in lens shade; single exposure device; built-in exposure guide; continuous operation lock; viewfinders ride with lenses on turret. Price, $174.42 including tax; sheath-type case $8.70, candid-type case $9.50; combination



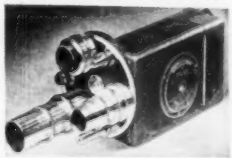
case, $21.80. Available interchangeable lenses: ½-inch f/1.9; ½-inch f/1.4; 1-inch f/1.9; 1½-inch f/3.5.

B & H AUTO LOAD



16 mm silent; capacity 50 ft. in magazines; speeds of 16, 24, 32, 48, and 64 frames per second; 133° angle single blade disc shutter; 1/43 sec. shutter speed at 16 frames per second; spring motor with rundown stop; 12-foot useful run; dial-type footage indicator; positive optical built-in eye-level finder; B&H coated 1-inch f/2.5 lens; universal focus; built-in lens shade; screw mount; interchangeable; single exposure device; built-in exposure guide; hand strap; lens cap. Price $162.50 including tax; sheath-type case, $9.75; combination case, $20.35. Accessories available include filters, thru-the-lens focuser, etc. Lenses available: .7-inch f/2.5 (T-2.7); 1-inch f/1.9 (T-2.1); 1-inch f/1.5; 2-inch f/1.4 (T-1.6); 2-inch f/3.5; 2.8-inch (T-2.5); 3-inch f/4 (T-4.5); 4-inch f/4.5 (T-5.1); 4-inch (T-2.5); 6-inch f/4.5.

B & H AUTO MASTER



Same as Auto Load, except has turret head; positive optical built-in eye-level viewfinder rides with lenses on turret; B&H coated 1-inch f/2.5 lens; universal focus; screw mount; built-in lens shade; single exposure device; built-in exposure guide. Price, $222.51 including tax; combination case, $25. Accessories and available lenses are the same as the Auto Load model.

B & H FILMO 70-DA

16 mm silent; roll loading; 100 ft. capacity; camera speeds of 8, 12, 16, 24, 32, 48, and 64 frames per second; 204° rotary disc shutter; 1/27 sec. shutter speed at 16 frames per second; spring motor drive with rundown stop; useful spring run of 23 ft.; revolving drum finder; 3-lens turret; B&H coated 1-inch f/1.9 lens set to scale; screw mount; built-in lens shade; critical focuser; continuous operation lock. Price, $307.17 including tax; combination case, $36.25. Available accessories include filters, hand crank, motor, rewind knob, external magazines. Lenses available: .7-inch f/2.5 (T-2.7); 1-inch f/1.9 (T-

2.1); 1-inch f/1.5; 2-inch f/1.4 (T-1.6); 2-inch f/3.5; 2.8-inch (T-2.5); 3-inch f/4 (T-4.4); 4-inch f/4.5 (T-5.1); 4-inch (T-2.5); 6-inch f/4.5.

B & H FILMO 70-J SPECIALIST

16 mm with 100 ft. capacity, or 400-foot magazines; 8, 12, 16, 24, 32, 48, and 64 frames per second camera speeds; 204° rotary disc shutter; shutter stabilizer; 1/30 sec. shutter speed at 16 frames per second; spring motor; hand crank; rewind knob; rundown stop; spring run of 23 ft.; parallax adjustment and shift-over focusing; Veeder footage counter; positive optical turret finder; 4-lens tur-

ret; B&H coated 1-inch T-2.1 (f/1.9) lens; built-in lens shade; screw mount; set to scale and full vision ground-glass focusing; adapted for electric motor drive. Price, $1,512.17 including tax. Lenses available: .7-inch f/2.5 (T-2.7); 2-inch f/1.4 (T-1.6); 3-inch f/4 (T-4.5); 4-inch f/4.5 (T-5.1). Accessories available include full upright-image finder with 2-inch and 3-inch amber celluloid mattes; 15-mm wide-angle objective for viewfinder; 2 400-foot 16-mm magazines; 115-volt a-c, d-c electric motor; heavy-duty tripod with case, head cover and boot; combined lens shade and matte box; and carrying case for camera and accessories.

MFR., Bell & Howell Co.

BOLEX L-8

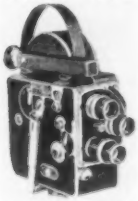
8 mm silent; 25 ft. roll capacity; 12, 16, 24, and 32 frames per second; 165° angle rotary disc focal plane shutter; 1/35 sec. shutter speed at 16 frames per second; spring motor drive with positive start; useful spring run 7 ft.; built-in eye-level finder corrected for ½-, 1-, and 1½-inch lenses; interchangeable Yvar ½-inch f/2.8 coated lens with built-in lens shade; focusing mount; slack film take-up; accidental exposure prevention device; trigger lock for continuous run. Price, including pigskin case and hand strap, $119.50, including tax; with fixed-focus lens, $99.50.

Accessories available include filters, masks, cable release and interchangeable lenses.

BOLEX H-16

16 mm silent; roll loading; 100 ft. capacity; 8, 16, 24, 32, and 64 frames per second; spring motor drive 18 ft.; positive threading; automatic threading; 190° angle rotary disc focal plane shutter; 1/30 sec. shutter speed at 16 frames per second; 3-lens turret with A or C mount; direct eye-level optical tri-focal finder; parallax corrected for 3 lenses; eye-level focusing through lens magnified 10x; focusing behind the camera; groundglass prism critical focus; single exposure device; film can be hand-cranked forward or reverse independent of spring motor; parallax adjustment; rewind; built-in frame counter adds and subtracts; automatic threading clutch disengages spring motor. Price, $282.50. Price of suede-lined leather case, $45. Available accessories include filters, hand strap, masks, synchronous motor, rangefinder, and matte box. Lenses available include Eastman Kodak 1-inch f/1.9, Wollensak 1-inch f/1.5, Yvar 15-mm f/2.8, and 3-inch Yvar lenses.

BOLEX H-8



Identical with H-16, except geared for double-8 film; takes 100 ft. rolls, and spring run of 12 ft. Price, without lens, $282.50. Available accessories are the same as the above model. Lenses available include Wollensak ½-inch f/1.9; Yvar 1½-inch f/2.8; and Yvar 1-inch f/2.5.

DIST., Paillard Products, Inc.

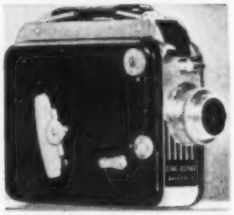
BRISKIN 8

8 mm silent; magazine load; capacity 25 ft. double width; 16, 24, 32, and 64 frames per second; 160° angle rotating shutter; 1/35 sec. shutter

speed at 16 frames per second; spring drive; 7½ ft. spring run; visual footage indicator; positive optical finder; interchangeable lenses; Wollensak coated 13-mm f/1.9 Cine Raptar lens; set to scale focus; built-in lens shade; slack film take-up; single exposure device; built-in exposure guide; parallax adjustment; automatic magazine ejector. Price, $108.50; with 13-mm f/2.5 Cine Raptar lens, $79.95; leather case, $10.50.

MFR., Briskin Camera Corp.

CINE-KODAK MAGAZINE 8



8 mm silent; magazine loading with 25 ft. capacity double width; 16, 24, 32, and 64 frames per second; 165° angle rotary shutter; 1/35 sec. shutter speed at 16 frames per second; spring drive, useful run 10 ft.; positive start; mechanical footage indicator; positive optical built-in eye-level finder; interchangeable lenses; bayonet mounting; coated Kodak Anastigmat 13-mm f/1.9 lens; built-in lens shade; set to scale focus; interchangeable magazines; pulse indicator; built-in exposure guide; parallax adjustment. Price, $147.50 including tax; combination case, $23.50. Lenses available: 9-mm f/2.7; 25-mm f/1.9; 50-mm f/1.6, and 63-mm f/2.7 and Cine Ektars. Accessories include filters, slip-on lenses, hand strap, hand crank, etc.

CINE-KODAK RELIANT

8 mm silent; capacity 25 ft. double width; spring drive; dial-type footage indicator; 16, 24, 32, and 48 frames per second; built-in eye-level finder with parallax correction indicators for 2- and 4-foot close-ups; shows field of 38-mm telephoto lens; sprocketless loading; built-in exposure guide; locking exposure button for continuous run. Price, with fixed-focus Cine Ektanon f/2.7 lens, $79 including tax with Cine Ektanon f/1.9 lens in focusing mount, $97.50 including tax. Accessories include coated 38-mm Kodak Cine Ektanon f/2.8 telephoto lens, filters, cases, lens attachments, etc.

CINE-KODAK MAGAZINE 16

16 mm silent; magazine loading; 50 ft. capacity; 16, 24, and 64 frames per second; 160° angle rotary shutter; 1/35 sec. shutter speed at 16 frames per second; spring drive; useful run 10 ft.; positive start; rundown stop; direct contact footage indicator; direct eye-level finder; positive optical finder; interchangeable lenses; Kodak Cine Ektar coated 25-mm f/1.9 lens in bayonet mount; set to scale focus; built-in lens shade; parallax adjustment; built-in exposure guide; timer pulse; automatic shut-off. Price, $175 including tax. Price of combination case, $27.50. Accessories include filters, slip-on lenses, hand strap, focusing finder, lens extension tubes; lenses available: 15-mm f/2.7; 50-mm f/1.6; 63-mm f/2.7; 102-mm f/2.7; and 15-mm f/4.5 in both Kodak Cine Ektar and Cine Ektanon lenses.

CINE-KODAK SPECIAL II

16 mm silent; 100 or 200 ft. capacity; 8, 16, 24, 32, and 64 frames per second; 165° angle, variable, rotary shutter; dissolving; 1/35 sec. shutter speed at 16 frames per sec.; spring drive, useful run 38 ft.; positive start; rundown stop; two types of footage indicators; direct eye-level finder; interchangeable lenses; 2-lens turret; coated 25-mm Kodak Extar f/1.4 lens; built-in lens shade; set to scale, reflex, and full vision groundglass focusing; single exposure device; parallax adjustment; masks, fades, dissolves; interchangeable film chambers; hand crank; forward or reverse; frame counter; engraved plate with owner's name. Price on request.

MFR., Eastman Kodak Co.

CINEMASTER II

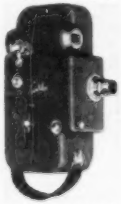
8 mm silent; capacity 25 ft. double width; 16, 24, and 32 frames per second; guillotine-type shutter; spring motor drive, useful run 10 ft.; positive start; blade-type footage indicator; built-in eye-level finder; in-

terchangeable lenses; universal focus; screw mount; built-in exposure guide; continuous run lock; combined exposure meter and optical viewfinder. Price, with coated ½-inch anastigmat f/3.5 lens, $51.90 including tax; with f/2.5 lens, $66.65; with f/1.9 lens, $96.75; eveready case, $6.

MFR., Universal Camera Corp.

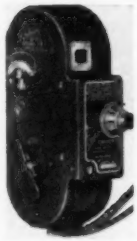
CINKLOX-SUPER FM-7

16 mm silent; roll loading; 100 ft. capacity; 3-speed motor for 16 and



24 frames per second, and slow motion; coated Wollensak f/2.5 lens with click stops; direct viewfinder; remote cable attachment to enable operator to get in scene; lock-on starting button; weighs over 4 lbs. Price on request. Accessories include carrying case, telephoto lens.

CINKLOX 3S



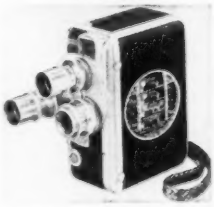
16 mm silent; 100 ft. capacity; 16, 24, and 32 frames per second; 150° angle rotary shutter; 1/35 sec. shutter speed at 16 frames per second; spring drive, with useful run 18 ft.; direct reading footage indicator; direct eye-level finder; interchangeable lenses: Wollensak coated 1-inch f/2.5 Cine Raptar; built-in lens shade; set to scale focus. Price, $69.75; case, $10.95.

MFR., Cinklox Camera Co.

DEJUR CITATION D-600

8 mm silent; roll loading; capacity 25 ft. double width; camera speeds, 12, 16, 24, and 48 frames per second; rotary shutter; 160° angle; 1/36 sec. shutter speed at 16 frames per second; 1/20 sec. at single frame; spring motor drive; positive start; rundown stop; useful spring run 7 ft.; geared footage indicator; built-in eye-level finder etched for 1½-inch lens; coated 13-mm anastigmat f/2.5 lens, fixed focus; interchangeable; built-in lens shade; slack film take-up; built-in exposure guide; release lock; sprocketless loading; anti-jam film gate. Price, $69.50 including tax; shoulder case, $9.50. Accessories include fixed-focus and focusing lenses, lens attachments, hand strap.

DEJUR EMBASSY D-700



8 mm silent; magazine loading; capacity 25 ft. double width; camera speeds, 12, 16, 24, 32, 48, and 64 frames per second; rotary shutter; 160° angle; 1/36 sec. shutter speed at 16 frames per second; 1/20 sec. at single frame; spring motor drive; positive start; rundown stop; useful spring run 10 ft.; geared footage indicator; built-in finder etched for 1½-inch lens; 3-lens turret; coated 13-mm anastigmat f/2.5 fixed-focus lens; built-in lens shade; interchangeable lens; slack film take-up; release lock; single-exposure device; built-in exposure guide; hand strap. Price, $124.50 including tax; case, $9.50. Available accessories same as Citation.

The camera that films . . .

All 3 views from 1 position

while sighting through a single Micromatic view-finder!

You can be in "three places at once" with Revere "26"—able to shoot three views from one position. A twirl of the revolving turret head . . . a quick turn on the adjustable Micromatic view-finder—and you have the lens you want in proper position!

With your choice of normal wide angle and telephoto lenses instantly available, you'll get otherwise unobtainable views of sports events and intimate wild-life . . . candid shots of children and grown-ups in natural, unposed action, caught only when taken unawares.

Yes, your movie-making will take on new thrills and pleasure when you own a Revere "26." Ask your Revere dealer to show you this camera masterpiece today! REVERE CAMERA COMPANY, CHICAGO 16.

Revere "26" 16mm Magazine Turret Camera with F 2.7 Coated Lens

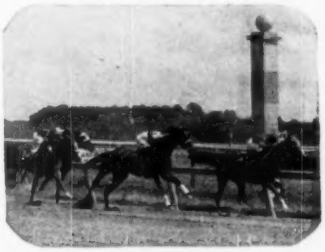
$152.50

TAX INCLUDED

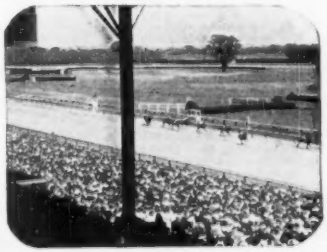
- *Instant Magazine Load*
- *3-Lens Revolving Turret Head*
- *Adjustable Micromatic View-Finder*
- *Continuous Run*
- *Single Frame Exposure*
- *Ratchet-Winding Key*
- *Five Speeds, Including Slow Motion*

Revere

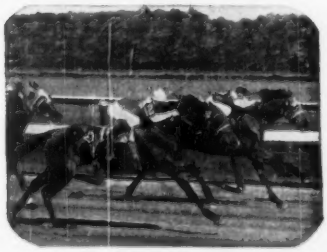
16MM MAGAZINE TURRET CAMERA "26"



NORMAL VIEW—They're off! Using your regular F 2.7 lens, you open your movie record of the race with a distant shot of the break-away. Then you follow the horses down the track until they round the turn.



WIDE ANGLE—Here they are in the stretch! With your wide-angle lens snapped into position, you catch the mounting excitement of the race in an all-encompassing shot of the track and cheering crowd in the grandstand.



CLOSE-UP—It's neck and neck! Swinging the 3-inch telephoto lens into action puts you practically in the judges' laps. From your seat high in the stands, you get your own photo-finish close-up as the winners streak under the wire.

IN PURSUIT OF HAPPINESS REVERE ADDS TO YOUR PLEASURE

DEJUR EMBASSY D-400

Same as the Embassy D-700 except has single-lens front. Price, $99.50 including tax; case, $9.50.

DEJUR FADEMATIC DC-100

8 mm silent; magazine loading; capacity, 25 ft. double width; camera speeds, 12, 16, 24, 32, 48, and 64 frames per second; rotary shutter, 160° angle; 1/36 second shutter speed at 16 frames per second; 1/20 sec. at single frame; spring motor drive; positive start; rundown stop; useful spring run 10 ft.; geared footage indicator; built-in, adjustable "zoom-type" magnification finder; coated 13-mm anastigmat f/2.5 fixed-focus lens; interchangeable, built-in lens shade; slack film take-up; release lock; single-exposure device; built-in exposure guide; handstrap; Fadematic Control built in for fades and lap-dissolves. Price, $132.50 including tax; holster case, $9.50.

DEJUR FADEMATIC CALIFORNIAN DH-100

Same as the Fadematic DC-100 except for covering; Californian is covered with saddle leather. Price, $135 including tax; holster or eveready case, $10.50.

DEJUR FADEMATIC DH-300 TURRET CALIFORNIAN

Same as the Fadematic DH-100 except that it is equipped with a 3-lens turret. Price, $160 including tax; case, $10.50.

DEJUR FADEMATIC TURRET D-300

Same as the Turret Californian DH-300 except that it is not covered with saddle leather. Price, $152.50 including tax; case, $9.50.

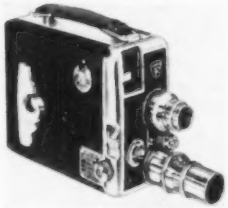
MFR., Dejur-Amsco Corp.

FRANKLIN 115

8 mm silent; magazine loading; 12, 16, 32, and 64 frames per second, or 16, 24, 32, and 64 frames per second; 170° angle rotary blade shutter; 1/34 sec. at 16 frames per second; spring drive, useful run 8 ft.; positive start; interior and exterior

footage indicators; built-in eye-level finder; interchangeable lenses; optional Wollensak & Somco lens equipment; slack film take-up; parallax adjustment. Prices range from $119.50 to $159.50 including tax; cases, from $8.95 to $16.95. Model 115K same as 115 but with baked-on brown finish. Prices from $77 to $99 including tax.

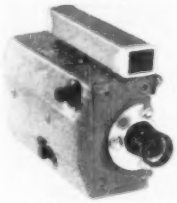
FRANKLIN 115T



Same features and design as model 115; equipped with twin-lens turret. Prices range from $139.50 to $159.50 including tax. Model 115GT same as model 115T but with different finish. Prices range from $139.50 to $159.50 including tax.

MFR., Franklin Photographic Industries, Inc.

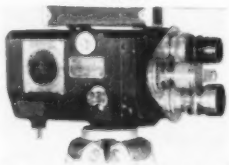
GORDON



16 mm silent; magazine loading; 50 ft. capacity; camera speeds, 16, 32, and 64 frames per second; revolving shutter; 1/45 sec. shutter speed at 16 frames per second; electric drive; positive start; mechanical, geared footage indicator; positive optical viewfinder; interchangeable 1½-inch Eastman Kodak or Bausch & Lomb f/3.5 lens; screw mount; fixed focus; built-in lens shade; built-in exposure guide; parallax adjustment. Price, $59.50 including tax.

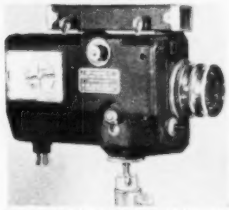
MFR., The Coogan Co.

GROVER G.S.A.P. TURRET



16 mm silent; magazine loading; 50 ft. capacity; camera speeds, 12, 24, 32, 48, 64, and 96 frames per second; 60° shutter; 1/40 sec. shutter speed at 16 frames per second; electric motor drive; useful run, 50 ft.; dial footage indicator; optical finder with etchad lines for 3-inch lens; 1⅜- and 3-inch Ansix lenses; screw mount; set to scale focus; built-in switch for remote control; built-in exposure guide; parallax adjustment; power supply pack using standard photoflash cells. Price, $137.50 including tax; case, $4.25.

GROVER G.S.A.P. C MOUNT

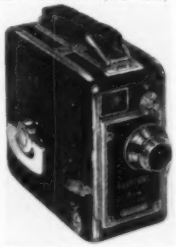


16 mm silent; magazine loading; 50 ft. capacity; 16, 32, and 64 frames per second; rotary shutter; 60° angle; 1/40 sec. shutter speed at 16 frames; electric motor drive; 50 ft. useful run; dial footage indicator; optical finder; helical focusing; coated 1-inch Wollensak f/2.5 lens; interchangeable; built-in lens shade; switch for remote control; built-in exposure guide; parallax adjustment; power supply pack from standard photoflash cells. Price, $87.50 including tax; case, $4.75. Accessories for Grover cameras include filters, slip-on lenses, hand straps, motor, etc.

MFR., Grover Photo Products.

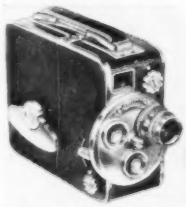
KEYSTONE K-40

8 mm silent; magazine loading; capacity 25 ft. double width; 165° angle rotating shutter; 8, 16, 24, and 64 frames per second; 1/35 sec. shutter speed at 16 frames; spring motor drive; positive start; rundown stop; useful run 6½ ft.; dial-type footage indicator; positive optical finder; interchangeable lens; ½-inch coated Wollensak f/2.5 lens; uni-



versal focus; built-in exposure guide; single exposure device; notches in finder aperture indicate parallel correction; visible and audible footage indicator in viewfinder; clicks at passage of every 9 inches of film; thumbwheel on top of camera changes size of viewfinder field for 1-inch and 1½-inch telephoto lens. Price, $99.50 including tax; with f/1.9 fixed-focus lens, $109.50; with f/1.9 lens in focusing mount, $124.50; case, $7.95.

KEYSTONE K-45



8 mm silent; magazine loading; capacity 25 ft. double width; camera speeds, 8, 16, 24, and 64 frames per second; rotary shutter; 165° angle; 1/35 sec. shutter speed at 16 frames per second; 1/29 sec. at single frame; spring motor drive; positive start; rundown stop; useful spring run, 6½ ft.; dial-type footage indicator; built-in optical finder, thumbwheel on top of camera changes size of field for 1-inch and 1½-inch telephoto lenses and ½-inch standard lens; single-exposure device; built-in exposure guide; parallax adjustment; visible footage indicator; 3-lens turret. Price, with coated ½-inch Wollensak fixed-focus f/2.5 lens in screw mount, $118.50 including tax; with f/1.9 lens in focusing mount, $143.50; combination case, $16.50.

KEYSTONE K-22

8 mm silent; capacity 25 ft. double width; 12, 16, and 48 frames per second; 140° angle rotating shutter; 1/40 sec. shutter speed at 16 frames; spring motor drive; useful run 5 ft.; positive start; dial-type indicator; built-in eye-level finder; interchangeable lens; ½-inch Wollensak coated f/2.5 lens; fixed focus; built-in exposure guide; flat base; equipped with 2 telephoto lens viewfinder frames which can be swung over in front of viewfinder lens, shows size of field for 1-inch and 1½-inch telephoto lens. Price, $67.50 including tax; with f/1.9 fixed-focus lens, $77.50; with f/1.9 lens in focusing mount, $92.50; price of cases, $7.95 and $8.50.

KEYSTONE K-36

Similar to K-22 model. Price, with coated ½-inch Wollensak fixed-focus f/3.5 lens, screw mount, $49.95 including tax; with ½-inch fixed-focus f/2.5 lens, $54.95; with ½-inch fixed-focus f/1.9 lens, $69.95; cases, $7.95 and $8.50.

KEYSTONE A-7

16 mm silent; capacity 100 ft. rolls; 10, 16, 24, 32, 40, 48, and 64 frames per second; 160° angle rotating shutter; 1/36 sec. shutter speed at 16 frames; spring motor drive; positive start; useful run 20 ft.; window-type footage indicator; built-in eye-level finder; interchangeable lens; 1-inch coated Wollensak f/3.5 lens; universal focus; built-in lens shade; built-in exposure guide. Price, $64.50 including tax; holster-type case, $13.75.

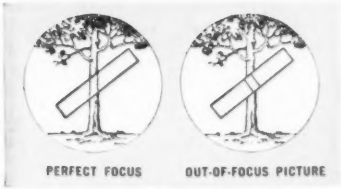
KEYSTONE A-9

Similar to A-7; equipped with single-exposure device; 1/32 sec. shutter speed at single frame; audible scene length indicator; continuous run. Price, with coated Wollensak fixed-focus f/2.5 lens in screw mount, $74.50 including tax; with coated Wollensak f/1.9 lens in focusing mount, $106; holster case, $13.75.

KEYSTONE A-12

Similar to A-9; equipped with 2-lens turret; rotation of turret changes size

RECTAFLEX



A Masterpiece

in 35mm Cameras

For years, the photographic world has dreamed of a 35mm camera that combines true precision, absolute ease in operation and real economy. Now, at last, that dream comes true in the RECTAFLEX . . . masterpiece in 35mm cameras.

With the Exclusive "DUO-FOCUS" Direct Eye-Level Finder-Focuser

You have direct eye-level groundglass focusing plus a focusing unit which has all the accuracy of a rangefinder, and is visible in the groundglass. You accomplish both focusing and viewing at the same time. Parallax is eliminated, visual control of the depth of field is provided, and framing and composing the scene are simplified. The "DUO-FOCUS" optics, which provide the "filter bar" sharp focus check, are contained within the camera, and are not connected to the lens. Thus, any lens can be installed on the camera, and will work in the same manner. In fact, with the larger focal length lenses the tilted image is even more exaggerated, providing increased accuracy when it is most needed. Persons having difficulty focusing on a groundglass will find the "DUO-FOCUS" system especially helpful.

Other Important Features Of The RECTAFLEX 35

- Interchangeable lenses, including 50mm Schneider Xenon F2 and 50mm Angenieux F2.9.
- Mount provides helical focusing so that the lens moves in and out without turning.
- Focal plane shutter provides speeds from 1 full second to 1/1000th second, and speed selections may be made before or after winding of film transport. All speeds are selected on one dial.
- Flash contacts are built into the shutter for use with either flash bulbs or electronic flash.
- Takes standard 35mm cartridges . . . black-and-white or color.
- Ideal for microphotography, scientific and clinical work where extension tubes or special optical devices are used.

With Schneider Xenon F2 Coated Lens . . . **$295.00**

With Angenieux F2.9 Coated Lens . . **$250.00**

Prices Include Federal Excise Tax

Ask for the RECTAFLEX at your Favorite Photo Store, or Write Today for Complete Literature.

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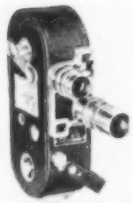
521 FIFTH AVENUE • NEW YORK 17, N. Y.



of finder field for 2-inch and 3-inch telephoto lenses, optical slide changes field for 17-mm wide-angle lens. Price, with coated Wollensak fixed-focus f/2.5 lens in screw mount, $98 including tax; with Wollensak f/1.9 lens in focusing mount, $129.

KEYSTONE K-50

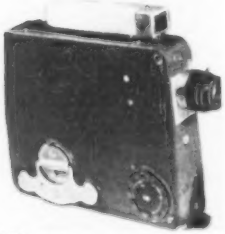
16 mm silent; magazine loading; 50 ft. capacity; camera speeds, 8, 16, 24, and 64 frames per second; rotary shutter; 150° angle; 1/38 sec. shutter speed at 16 frames per second; 1/26 sec. at single frame; spring motor drive; positive start; rundown stop; useful spring run, 10 ft.; built-in eye-level finder; sliding knob changes size of viewfinder field for 17-mm wide-angle, 1-inch and 2-inch telephoto, and 1-inch standard lenses; lens in screw mount; single-exposure device; built-in exposure guide; parallax adjustment. Price, with coated Wollensak fixed-focus f/2.5 lens, $114.50 including tax; with f/1.9 lens in focusing mount, $146; combination case, $16.50; holster case, $10.50.

MFR., Keystone Mfg. Co.

LEKTRO JUNIOR

16 mm silent; magazine loading; 50 ft. capacity; 16, 32, and 64 frames per second camera speeds; 172° angle conical shutter; 1/45 sec. shutter speed at 16 frames per second; electric drive with positive start; geared footage indicator; positive optical finder; same lens equipment as the Senior model. Price, including leather compartment case and special battery, $49.50.

MAGAZINE POCKET



16 mm silent; 50 ft. capacity; uses Simplex-type magazines; 172° angle conical shutter; geared footage indicator; 1/42 sec. shutter speed at 16 frames per second; useful spring run is over 30 ft.; positive start; run-down stop; positive optical viewfinder; parallax correcting; interchangeable lenses; standard supplied lens, screw mount Bausch & Lomb 1-inch f/3.5 lens; single-exposure release; pre-set footage indicator. Price, $49.50.

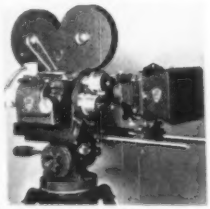
MFR., Associated Photo Products.

MAURER MODEL 05

16 mm silent; capacity 200, 400, or 1200 ft.; 235° angle, variable and dissolving 3-blade shutter; 2 to 128 frames per second with synchronous motor; 1/35 sec. shutter speed at 24 frames per second; motor drive; positive start; Veeder-Root Counter footage indicator; positive optical finder with erect image, masks for 15-mm to 102-mm lenses; interchangeable Ektar and Baltar lenses; 3-lens turret; optional lens equipment; parallax adjustment; slack film take-up; 400-foot magazine; high power focusing system through the lens; clear glass viewing system; detachable finder. Price, $3650.

MFR., L. A. Maurer, Inc.

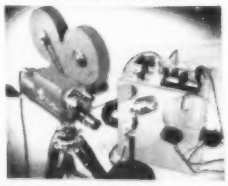
MITCHELL 16 PROFESSIONAL



16 mm sound; magazine loading; 400 ft. and 1200 ft. capacity; stop motion to 128 frames per second; rotary shutter; 175° or 230° angle; variable and dissolving shutter; 1/34 sec. shutter speed at 16 frames; motor drive; Veeder footage counter; erect image finder with built-in adjustable mattes; focusing through the lens; interchangeable Baltar or Eastman lenses; built-in lens shade; C mount and screw mount. Price, $4000; case, $40.

MFR., Mitchell Camera Corp.

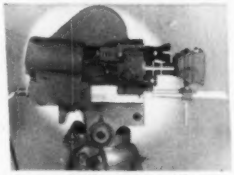
MORTON SOUNDMASTER



16 mm sound-on-film recording camera; single-system unit recording sound and pictures simultaneously on the same film; 200 ft. magazine interchangeable with 400 ft. magazine; 3-lens turret; amplifier; microphone; headset; operated by portable power pack. Price, $495.

MFR., The Morton Co.

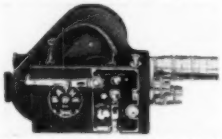
NORD PROFESSIONAL



16 mm; roll film loading; 200 ft. capacity; 24 frames per second; 240° angle shutter; electric motor; continuous run; foot and frame counter; studio, or Nord semi-zoom finder; rack-over focusing and microscope, critical focusing; automatic forward and reverse take-up; rack-over completely enclosed; uses lenses with C mount. Price, under $2500 including case and tax. Accessories include hand crank, synchronous motor; blimp; animation clutch.

MFR., The Nord Co.

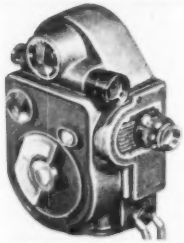
PATHE SUPER 16



16 mm silent; roll loading; 100 ft. capacity; camera speeds, 8, 16, 24, 32, 64, and 80 frames per second; dissolving focal-plane shutter; 85° angle; variable; 1/32 sec. shutter speed at 16 frames per second; 1/32 sec. at single frame; spring motor drive; positive start; useful spring run, 30 ft.; mechanical footage indicator; direct reflex finder allowing focusing through the lens during filming and optical finder corrected for various focal length lenses; no parallax; single-exposure device; slack film take-up; full frame focusing device; built-in hand crank; 3-lens turret; automatic footage and frame counters. Price, $395; case, $45.

DIST., Director Products Corp.

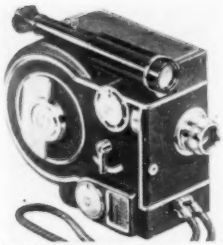
REVERE MODEL 88



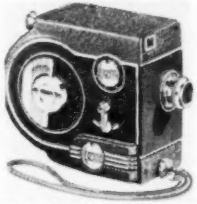
8 mm silent; capacity 25 ft. double width; 8, 12, 16, 24, and 32 frames per second; 160° angle rotary disc shutter; 1/35 sec. shutter speed at 16 frames; governor speed control; spring motor drives; useful run 6 ft.; silent helical gears; automatic film loop sprocket; recessed gate prevents film scratching; built-in optical finder; parallax corrected. Price with f/2.5 lens, universal focus, $74.50 including tax; with f/1.9 lens in focusing mount, $99.50; with 1½-inch telephoto f/3.5 lens in focusing mount, $99.50.

REVERE MODEL 70

8 mm silent; magazine loading; 12, 16, 24, 32, and 48 frames per second; 160° angle rotary disc shutter; 1/35 sec. speed at 16 frames; spring motor drive, useful run 9 ft.; positive start; rundown stop; visual footage indicator; positive optical built-in eye-level finder; interchangeable lenses; ½" coated anastigmat f/2.8 lens; screw mount; fixed focus; built-in lens shade; single exposure device; built-in exposure guide; parallax corrected; ratchet wind; wrist strap. Price, $122.50 including tax; with f/1.9 lens in focus mount, $145.

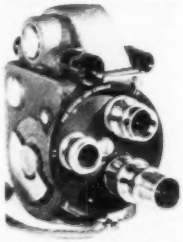


REVERE C77



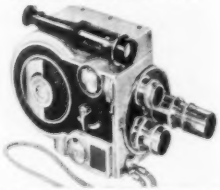
Same as the C70 model except has built-in eye-level finder; equipped with coated ½-inch f/2.5 lens. Price, $87.50 including tax.

REVERE MODEL 99



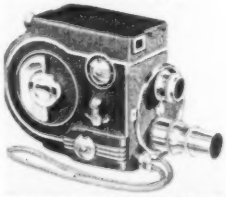
Same as Model 88, except has rotating turret head for three screw-type lenses and extra optical viewfinder for telephoto work; index mechanism positions lens. Price, with f/2.8 lens, $99.50 including tax; with f/1.9 lens in focusing mount, $122.50.

REVERE MODEL 60



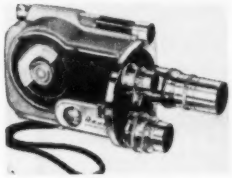
Similar to Revere Model 70, except has 3-lens turret; micromatic built-in eye-level finder. Price, with ½" coated anastigmat f/2.8 lens with fixed-focus, $147.50 including tax; with f/1.9 lens in focusing mount, $177.50.

REVERE C67



Same as the Revere C60 except has built-in eye-level finder and a 2-lens turret rather than 3-lens turret; equipped with coated ½-inch f/2.8 lens. Price, $104.50 including tax.

REVERE MODEL C-26



16 mm silent; magazine loading; 12, 16, 24, 32, and 48 frames per second; 133° angle rotary disc shutter, 1/35 sec. shutter speed at 16 frames per second; spring motor drive, useful run 12 ft.; positive start; rundown stop; visual footage indicator; built-in micromatic eye-level finder; interchangeable lenses; 3-lens turret; 1-inch coated anastigmat fixed-focus f/2.7 lens; built-in lens shade; built-in exposure guide; parallax corrector; ratchet-type wind; wrist-strap. Price, $152 including tax.

MODEL C-29

Identical to the above, except has coated 1-inch anastigmat f/1.9 lens in focusing mount. Price, $179.50 including tax.

REVERE MODEL C-16

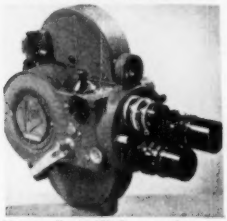
16 mm silent; magazine loading; 12, 16, 24, 32, and 48 frames per second; 133° angle rotary disc shutter; 1/35 sec. shutter speed at 16 frames per second; spring motor drive, useful run 12 ft.; positive start; rundown stop; visual footage indicator; built-in micromatic eye-level finder; interchangeable lenses; coated 1-inch anastigmat f/2.5 lens; screw mount; fixed focus; built-in lens shade; single exposure device; built-in exposure guide; parallax corrector; ratchet-type wind. Price, $130 including tax.

MODEL C-19

Identical to the above, except has coated 1-inch f/1.9 lens in focusing mount. Price, $150 including tax.

MFR., Revere Camera Co.

VICTOR MODEL 4



16 mm silent; 100 ft. capacity; camera speeds, 8, 16, 24, and 32 frames per second plus ultra slow motion; rotary disc shutter; 1/30th sec. shutter speed at 16 frames per second; dual spring motor drive; useful run 22 ft.; positive start and stop; optical viewfinder with leveler and parallax correction; direct vision focusing finder through lens; optional hand crank; 3-lens turret front; mechanical footage indicator. Price, $160; case, $30.

MFR., Victor Animatograph Corp.

SOME NOTES ABOUT FILMS

There is no one, single film that will give you the best possible results in every picture-taking situation. Modern emulsions of the general-purpose type have almost unbelievable latitude, but there are times when it is advantageous to know and use a film designed for a specific photographic task.

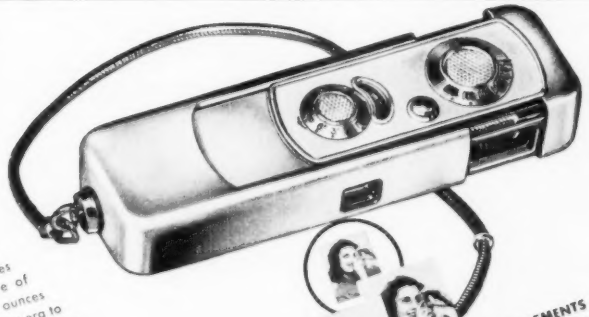
The film listings on the preceding pages describe the emulsions available today and give their recommended uses. The important characteristics to look for in any film are speed, grain size, exposure latitude, color sensitivity, and contrast. Often, when one quality is especially important in a given case, it is necessary to give up another quality to get it. This is particularly true when speed and grain size are considered—the fastest films give rather large grain when developed as recommended.

Films differ considerably in color sensitivity, but fall into two major classes—orthochromatic and panchromatic. The ortho films are fairly well color balanced, except for a lack of red sensitivity, and are the most popular of all for general-purpose use with simple cameras. Panchromatic films are sensitive to red, are better balanced, and are faster than most orthochromatic films available on the market today.

Within the panchromatic group are films of Type B, which have color sensitivity roughly parallel to the human eye, and Type C, which are similar except for a slight oversensitivity to red. These latter are the fastest films that are available today, and are especially recommended for use in taking pictures indoors under artificial light, which contains much red.

The best advice that can be given to any beginner is to start with one general-purpose film and stick with it, learning to use it before experimenting with anything else.—▶

World's Smallest HIGH PRECISION CAMERA



Precision made to tolerances closer than those of the finest watch, the new Model II Minox camera is a triumph of engineering skill ... plus ingenious craftsmanship that incorporates in subminiature size every worthwhile feature of modern camera construction. Weighing only 2 ounces ... 3 inches long, 1 inch wide, it is the ideal camera to carry with you at all times ... instantly available for action from 8 inches to infinity ... consistently capable of producing truly professional results.

Minox is so easy to handle, too. A lengthwise pull of the housing automatically and simultaneously winds shutter, transports film and exposes lens and viewfinder. Foolproof and speedy focusing ... Unique crystal-clear viewfinder coupled with focusing for elimination of parallax ... Film loading even in broad daylight ... 50 recorded exposures ... Easily developed in your own home or by your dealer. Users everywhere acclaim its amazing economy.

SEE THE MINOX AT YOUR DEALER

ENLARGEMENTS ... Minox negatives may be enlarged to the proportions of any standard 35 mm negative.

Manufacturer: Minox G.m.b.H. Wetzlar, Germany

EXCLUSIVE MINOX FEATURES INCLUDE:

- Dimensions: 5/16" x 1" x 3"
- Weight: 2 ounces
- Size of Negative: 8 x 11 mm
- Aperture: F/3.5, five element coated Lens
- Focal Length: 15 mm
- Focusing Range: 8" to infinity
- Two built-in Filters
- Shutter Speeds ½ to 1/1000 sec. Time and Bulb
- Automatic Parallax Compensation
- Brilliant Sports-Viewfinder
- Daylight loading film cartridge for 50 exposures in all popular film speeds

Distributor: MINOX Inc.

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With the Federal *Store-Away* you don't need a permanent dark room. Your kitchen or bathroom will do fine. When you want to make enlargements the Federal *Store-Away* sets up in a jiffy . . . folds down just as fast when you're through.

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Illustrated: Federal *Store-Away* Junior Model 269 for negatives up to 2¼ x 3¼. Complete with Decar F6.3 Anastigmat Lens . . . $39.50 Tax included. Carrying Case $6.95.

Federal is America's Greatest Enlarger Value
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Complete with Lens • Tax Included

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Makers of Federal Enlargers, Cameras and Microscopes
213 STEUBEN STREET BROOKLYN 5, NEW YORK

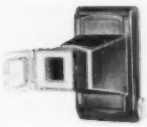
ENLARGERS

BACO PRECISION

Vertical or horizontal; takes film size 2¼x3¼; condenser illumination; 3½-inch f/4.5 Ilex Paragon Anastigmat lens; rack-and-pinion focusing; large focusing knobs; metal negative carrier; built-in red screen for focusing; positive locking pins to hold assembly in position; switch on cord. Price, with lens, $81.50; without lens, $71.50.

MFR., Baco Accessories Co.

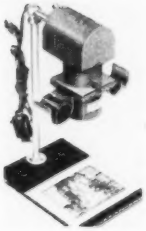
CINELARGER 35mm



Camera-like device used to enlarge 35-mm and Bantam color slides to black-and-white negatives on No. 620 roll film; uses No. 2 floodlamp; built-in lens and shutters. Price, $17.95 including tax.

MFR., Testrite Instrument Co., Inc.

CIPCO EVEREDI



Vertical; takes film sizes from 1x1½ to 1x¾; flashed opal diffusion illumination with 75-watt lamp on recommended line voltage of 110; ventilation by top shielded vents; 2-inch f/11 lens; 4-diameter enlargement on baseboard; fixed focus; metal negative carrier; film advance without removing roll; built-in red screen for focusing; control switch on cord; built-in-base easel. Price, $15.

MFR., Consolidated Instrument Parts Co.

COLUX COLD LIGHT

Vertical; takes up to 4x5 film size; designed for use as a projector also; flashed opal diffusion illumination system; 75-watt cold light at 3500 K color temp.; optional lens equipment; rack-and-pinion focusing; metal negative carrier; lamp-housing tilts and swings; distortion control; built-in red screen for focusing; control switch in line cord. Price, less lens, $99.50; accessories include negative carriers for 2¼x3¼ and 3¼x4¼.

MFR., Eastern Photo Mfg. Co., Inc.

COMPCO 620

Vertical; takes film sizes from 35 mm to 2½x3½; opal diffusion illumination system; 150-watt standard enlarging lamp; 110-120 line voltage; natural draft ventilation; 3½-inch f/7.7 anastigmat lens; helical focusing; metal negative carrier; masks for 5 film sizes; film advance; snap action switch on cord; double channel uprights; steel baseboard. Price, $28.75 including tax. Accessories available include recessed lens board, carriers, masks, etc.

MFR., Compco Corporation.

CURTIS COLOR FILM ENLARGING PRINTER

Horizontal; takes 35 mm film size and enlarges to 4x5; designed for use as a contact printer, taking up to 4x5 negatives; 2-element condenser illumination system; 75-watt G-E No. 111 enlarging lamp; radiating aluminum fins ventilation; 2-inch f 4.5 Wollensak lens selected for color correction; 50 mm Leica or Contax lenses may be used when operating as printer; rack-and-pinion focusing; metal negative carrier; provision against Newton's rings; distortion control. Price, including lens, $169.50 plus tax. Accessories include mask filter, transparency mount with integral gray scale.

MFR., Curtis Laboratories, Inc.

DEJUR VERSATILE KOOLITE I

Vertical; rotates to horizontal; takes film sizes from 35 mm to 2¼x3¼; flashed opal diffusion; illumination, 18-watt cold-cathode, 4500 K white lamp; 115 line voltage recommended; no ventilating provisions needed; coated 3½-inch DeJur Chromtar anastigmat f/4.5 lens; 9 diameters enlargement on baseboard; smooth friction lens and negative focusing; metal and glass sandwich carriers; film advance without removing roll; lamp-housing swings to permit bigger enlargements; negative carrier tilt and whole head tilt for distortion control; built-in red filter; line switch in cord; heat-absorbing glass; adjustable negative positions; interchangeable lenses on lensboard; rotating negative carrier. Price, $129.50 including tax.

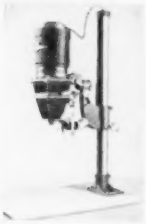
DEJUR VERSATILE KOOLITE II

Similar to Model I; takes film sizes from 35 mm to 3¼x3¼; does not have full distortion control or double bellows. Price, including coated 3½-inch DeJur Chromtar anastigmat f/4.5 lens, $99 including tax. Accessories available for the Koolite enlargers include condenser head, camera backs, copying lights, color head, 3-color filter, etc.

DEJUR VERSATILE PROFESSIONAL KOOLITE

Vertical; rotates to horizontal position; takes film sizes from 35 mm to 4x5; designed for use as projector also; flashed opal diffusion; illumination, 34-watt cold-cathode, 4500 K white lamp; 115 recommended line voltage; no ventilating provisions required; coated 5½-inch Chromtar anastigmat f/4.5 lens; 5½ diameters enlargement at the baseboard; lenses interchangeable on lensboard; positive friction focusing; glassless negative carrier; 10 carriers available; film advance without removing roll; lamp-housing swings to permit bigger enlargements; lens and head tilt for distortion control; built-in red mask; line switch in cord; heat-absorbing glass; adjustable negative position; rotating negative carrier. Price, $179.50 including tax.

DEJUR VERSATILE I

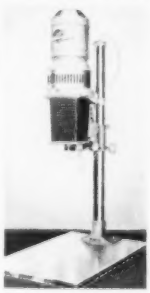


Vertical or horizontal; takes film sizes from 35 mm to 2¼x3¼; designed for use also as a projector; 2-element condenser illumination system; G-E No. 211 lamp; coated 3½-inch Chromtar anastigmat f/4.5 lens; Aero Teck ventilation; 9 diameters enlargement at baseboard; friction and negative focusing; metal negative carrier; adjustable negative position; provision against Newton's rings; distortion control with negative stage tilt; built-in red filter for focusing; line cord switch. Price, $129.50 including tax. Accessories include, color head, three color filters, copying lights, tripod clamp, camera support, camera back, lens boards for various lenses.

DEJUR VERSATILE II

Takes film sizes up to 3¼x4¼ (uses 3¼x3¼ area); similar to Model I, but does not have full distortion control or negative focusing. Price, with 3½-inch DeJur Chromtar anastigmat lens, $99 including tax. Accessories same as Model I.

DEJUR PROFESSIONAL 4x5



Vertical or horizontal; takes film sizes from 35 mm to 4x5; 2-element condenser system; uses No. 211 opal bulb for illumination; Aero Teck ventilation; 5½-inch coated Chromtar anastigmat f/4.5 lens; friction focusing; metal negative carrier; provision against Newton's rings; distortion control by lens and head tilt; built-in red screen for focusing; adjustable negative position; line cord switch. Price, $179.50 including tax. Accessories the same as above models.

MFR., DeJur-Amsco Corp.

ELWOOD AM MINIATURE

Vertical; takes film sizes from 35 mm to 2¼x3¼; silvered reflector or condensing lamphouse optional; A23 opal enlarging lamp; optional lens equipment; rack-and-pinion focusing; glass sandwich or glassless metal frame negative carrier; film advance without removing 35 mm roll; built-in red mask for focusing; micrometer screw focusing; distortion lens board furnished upon request. Price, with silvered reflector, $48 plus tax; price with double 5-inch condensers, $66 plus tax. Accessories include cold light, setback lens mount for 2-inch lenses, carriers, etc.

ELWOOD BM MINIATURE

Vertical; takes film sizes from 35 mm to 2¼x2½; single condenser illumination; 75-watt opal en-

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larging lamp; optional lens equipment; 10 diameter enlargements on baseboard; multiple thread lens barrel gives micrometer focusing; glassless metal negative carrier; film advance without removing roll; built-in red screen for focusing. Price, less lens, $30 plus tax. Accessories include longer main slide, cold light, negative carriers, lens extensions, set-back lens mounts.

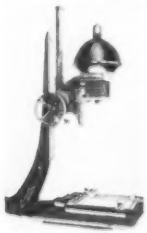
ELWOOD SPECIAL SP-2

Vertical; takes film sizes from 35 mm to 5x7; silvered reflector illumination; 200-watt enlarging lamp on recommended 110 line voltage; 6-diameter enlargement on baseboard in vertical position; rack-and-pinion focusing; glass sandwich negative carrier; lamp housing tilts and swings to permit bigger enlargements; built-in red screen for focusing; built-in masking device; dual focusing; clamping hand wheel focusing spot in negative carrier; cast aluminum base. Price, less lens, $99 plus tax. Accessories include No. 2 distortion lens board, lens extension, set-back lens board, carriers, etc.

ELWOOD STUDIO S-2

Vertical; takes film sizes from 35 mm to 5x7; semi-diffusion illumination silvered reflector; 100-watt opal enlarging lamp; 120 recommended line voltage; rack-and-pinion focusing; glass sandwich negative carrier; lamp house swings and tilts; built-in red screen for focusing; built-in masking device; focusing spot in negative carrier; dual focusing; optional lens equipment. Price, less lens, $69 plus tax. Accessories same as above.

ELWOOD AUTOFOCUS 5x7



Vertical; takes film sizes up to 5x7; semi-diffusion illumination, silvered reflector; 200-watt opal enlarging lamp; 6½-inch f 4.5 coated anastigmat lens; 9 diameters enlargement on baseboard; autofocusing; switch on stand; glass sandwich negative carrier; lamp house tilts and swings; built-in red screen for focusing; built-in masking device. Price, $371.58 plus tax. Accessories include cold light, distortion lens board, set-back lens board, carriers, etc.

ELWOOD AUTOFOCUS 8x10

Vertical or horizontal; takes film sizes up to 8x10; silvered reflector; 200- to 500-watt opal enlarging lamp; 10-inch coated f 4.5 anastigmat lens; 5 diameters enlargement on baseboard; autofocus; glass sandwich negative carrier; switch on stand; built-in red screen for focusing; built-in masking device. Price, $713 plus tax. Accessories include the same as 5x7 model plus camera back attachment.

ELWOOD COMMERCIAL C-2

Vertical; takes film sizes from 35 mm to 8x10; semi-diffusion, silvered reflector; 200- to 500-watt opal enlarging lamp; optional lens equipment; rack-and-pinion focusing; glass sandwich negative carrier; lamp house swings and tilts; switch on stand; built-in red screen for focusing; built-in masking device; dual focusing; clamping hand-wheel focusing spot in negative carrier. Price, $216 less lens, plus tax. Accessories include distortion lens boards, set-back lens boards, lens extension, cold light, carriers, etc.
MFR., Elwood Pattern Works.

FEDERAL STORE-AWAY SENIOR 311

Vertical; takes film sizes from 35 mm to 2¼x3¼; single condenser system with diffusion plate; 75-watt No. 211 opal lamp; 120 line voltage recommended; 3½-inch Federal Octar f/4.5 lens; 8 diameters enlargement on baseboard; micrometer friction wheel focusing; convertible glass or metal negative carrier; provision against Newton's rings; masks included for 4 film sizes; film advance without removing roll; built-in red filter; switch on line cord; can be stored in carrying case; metal baseboard; built-in focusing target. Price, $69.50 including tax. Accessories include carrying case, 2-inch lens, metal negative carriers.

FEDERAL STORE-AWAY COMPACT 288

Similar to Model 269; takes film sizes from 35 mm to 2¼x3¼; flashed opal diffusion; 3½-inch Federal Bifax doublet f/7.9 lens; 7 diameters enlargement on baseboard. Price, $29.75 including tax. Accessories include carrying case, $6.95; special condenser system with parabolic reflector, $9; counterbalance, $2.75.

FEDERAL 450

Vertical; takes film sizes from 35 mm to 4x5; groundglass and opal diffusion illumination; 75-watt clear enlarging lamp; ventilation by air vents with light baffles; 5½" f/6.3 anastigmat lens with iris diaphragm; 4½ diameter enlargement on baseboard; micrometer focusing; combination metal and glass negative carrier; controlled pressure prevents Newton's rings; masks for 7 film sizes; film advance without removing roll; distortion control by calibrated swivelhead; built-in red screen for focusing; line cord switch; color carrier and mask holder; built-in focusing target; counterbalanced; clutch on enlarger arm sleeve. Price, including tax, $112.50. Accessories include dustless metal negative plates, double condenser lens assembly.

FEDERAL 470

This model is exactly the same as the 450 Model except that it has a combination 2-element condenser and sand-blasted light distribution plate illumination; 75-watt opal enlarging lamp. Price, including 5½-inch lens and tax, $134.50. Accessories include dustless metal plates in all popular sizes.

FEDERAL 269 STORE-AWAY JR.

Vertical; takes film sizes from 35 mm to 2¼x3¼; groundglass and flashed opal diffusion illumination; 75-watt clear enlarging lamp; ventilation by air vents with light baffles; 3½-inch f 6.3 Decar anastigmat lens in iris diaphragm; 7 diameters enlargement on baseboard; metal and glass negative carrier; pressure control prevents

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Citation

8 mm ROLL FILM MOVIE CAMERA

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Magazine 8mm camera that makes you master of Hollywood effects—automatic fade-ins, fade-outs, even lap dissolves. Six operating speeds. Single frame control. Full 10 foot run with no slow-down.
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Long recognized as the standard of comparison in precision exposure meters . . . easily read . . . easily understood by all camera users. $24.50

DeJUR "EMBASSY"
Precision-built magazine-loading 8mm camera. Covered in beautiful brown leatherette. Performance features you'd expect only in a camera selling for much more than $99.50

All prices shown are list prices with Fed. tax included.

Never before a precision engineered camera with features like these: "Pull-Press-Click" (new simplified loading), "no jam" gate; built-in exposure guide; long run motor; lifetime guarantee; click-stop color corrected f/2.5 lens — and many more — selling for under $100. So easy to operate . . . so simple to use . . . it's the perfect family camera!

The products illustrated on this page show the values in the DeJUR line. See your photo dealer for a complete listing of all DeJUR products.

Write to Dept. C3 for illustrated folder on De Jur Citation. Literature on other products sent upon request.

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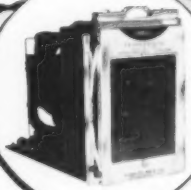

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Quickly attached, this spring-type camera back provides easy ground-glass focusing and converts foreign-make cameras from hard-to-get centimeter film and old-style single holders to readily available American holders and film. Two sizes: 9 x 12 cm. for 3¼" x 4¼" holders; 6½ x 9 cm. for 2¼" x 3¼" holders.

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Newton's rings; masks included for four film sizes; film advance without removing roll; lamp house swings and tilts; line cord switch; focusing target. Price, $39.50 including tax. Accessories include, carrying case, single condenser lens assembly, 2-inch and 3½-inch lenses, dustless negative carrier, etc.

FEDERAL 279 STORE-AWAY JR.

This model is identical with Model 269, with the exception of the illumination system; it has combination single-element condenser and sandblasted light distribution plate illumination with a 75-watt opal enlarging lamp. Price, including tax, $47. Accessories the same as for model 269.

FEDERAL 314

Vertical or horizontal; takes film sizes from 35 mm to 2¼x3¼; combination 2-element condenser and sand-blasted light distribution plate illumination; 75-watt opal enlarging lamp with parabolic reflector; ventilation by air vents with light baffles; 3½-inch f/6.3 Fedar anastigmat lens with iris diaphragm; 7 diameters enlargement on baseboard; micrometer focusing; metal and glass negative carrier; pressure controlled carrier prevents Newton's rings; masks included for 4 film sizes; film advance without removing roll; calibrated swivel head; built-in red screen for focusing; line cord switch; color carrier and mask holder; built-in focusing target; counterbalanced; clutch on enlarger arm sleeve. Price, including tax, $76. Accessories include dustless negative carriers, etc.

FEDERAL 315

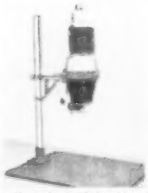
This model is identical to Model 314 except that it has a 3½-inch f/4.5 Octar anastigmat lens; 8 diameters enlargement on the baseboard; Price, including tax, $89.50. A 2-inch f/4.5 Federal Decar anastigmat lens is available for both models as an accessory.

FEDERAL 312

Vertical; takes film sizes from 35 mm to 2¼x3¼; groundglass and flashed opal diffusion illumination; 75-watt clear lamp; parabolic reflector; 3½-inch f/6.3 anastigmat lens; 7-diameter enlargement; micrometer focusing; other features and design similar to other Federal models. Price, including tax, $53. Accessories the same as other Federal models.

MFR., Federal Mfg. & Engineering Corp.

FOTOLARGER C



Vertical; takes film sizes from 35 mm to 2¼x3¼; 2-element condenser system; uses No. 211 enlarging lamp; 110-120 line voltage recommended; rack-and-pinion focusing; metal, rotating negative carrier; film advance without removing roll; lamp-housing tilts to permit bigger enlargements! built-in red filter. Price, $25.50 plus tax. Accessories include enlarger stand, lenses, carriers, split-pole upright, lens boards, etc.

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- Takes 3"x5" to 8"x10" negatives.
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FOTOLARGER D

Similar to Model C; flashed opal diffusion system; uses No. 211 opal enlarging bulb; friction focusing; rotating, glassless negative carrier, 16x19 baseboard. Price, without enlarger stand illustrated, $19.50, plus tax. Accessories include enlarger stand, $8.50 plus tax; negative carriers, lensboards, lenses, condensers, etc.

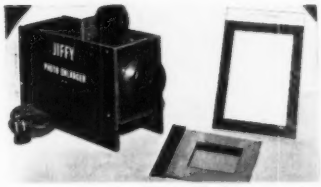
MFR., Testrite Instrument Co., Inc.

J. B. A. PHOTO ENLARGER

Vertical; takes film sizes from 16 mm to 3¼x4¼; opal glass diffusion; uses No. 213 enlarging lamp; 3½-inch Ilex Anastigmat f/6.3 lens; micrometer focusing; metal sandwich negative carrier; 5 sets of masks available; film advance without removing roll; lamp-house swings to permit bigger enlargements; built-in red filter; switch in line; 14x16 baseboard. Price, $25.25 including tax.

MFR., J. B. Photo Co.

JIFFY PHOTO ENLARGER MODEL 211



Horizontal; takes film sizes from 35 mm to 2¼x3¼; opal diffusion illumination; 75-watt G-E 211 lamp; no overheating in 24 hr. continuous use; 85 mm f/11 lens with friction focusing; glass sandwich negative carrier; special 35 mm holder; masks for all film sizes; film advance device; control switch on cord; easel for 5x7 paper, adjustable smaller; Price, $9.95 complete. Accessories include long focal length lens, 8x10 easel, etc.

MFR., A P Products.

KODAK AUTO-FOCUS—MODEL E

Vertical; takes up to 5x7 film and plates; ground and sandblasted glass diffusion illumination; G-E No. 302 500-watt opal enlarging lamp; ventilation provision; 7½-inch coated f/4.5 Kodak Ektanon Enlarging lens; click stops; 4 diameters enlargement on baseboard; combination glass sandwich and metal frame negative carrier; built-in mask adjustable from 35 mm to 5x7; foot switch; 17x20 enlarging easel; diffusing disc holder; graduated scale on two sides of paper easel; lens diaphragm illuminator on lens board. Price, $450 plus tax.

KODAK PRECISION—B ASSEMBLY

Vertical or horizontal; can be used as projector; takes film sizes up to 4x5; can be used as copy and regular camera with double-extension bellows; opal

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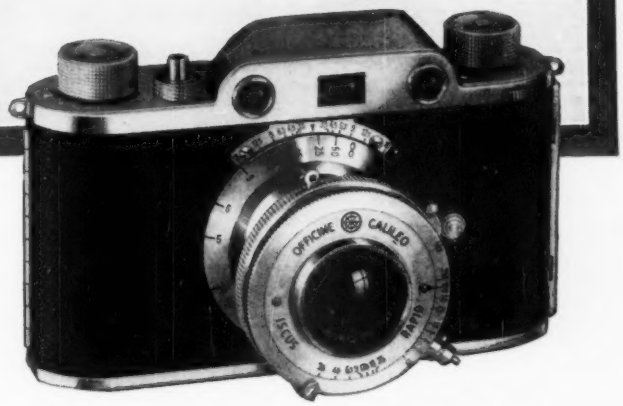

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- ▶ Lightweight . . . camera weighs only 17½ ounces, and measures 2" x 3" x 5".
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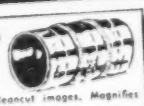

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KODAK FLUROLITE

Vertical; takes film sizes from 35 mm to 2¼x3¼; designed for use as projector, movie titler, slidemaker, view camera, and copy unit also; "integrating-sphere" type system with 22-watt circular fluorescent lamp; trapezoidal bi-rail frame; micrometer focusing and elevation; circular bellows; tilting back with zero indicator for distortion control; lighttight cabinet for film and paper built-in baseboard; available lenses include 2-, 3-, and 4-inch Kodak Enlarging Ektanon f/4.5 and Ektar f/4.5 lenses; rotary negative carrier; film advance without removing roll; built-in filter holder. Price, $112.50 including tax.

KODAK HOBBYIST

Vertical; takes film sizes from 35 mm to 2¼x3¼; "integrating-sphere" type system with 22-watt circular fluorescent lamp; coated 89-mm Kodak Enlarging Ektanon f/6.3 lens supplied; click stops; 7 diameters enlargement at baseboard; friction focusing; rotary negative carrier; enlarger can be stored away in suitcase-type box supplied with unit. Price, $47.50 including tax.

MFR., Eastman Kodak Co.

LEITZ FOCOMAT C

Takes film sizes from 1x 1½ to 40x40 mm; single-element condenser enlarger; uses 75-watt opal lamp; 110 line voltage; coated 50-mm anastigmat f/3.5 lens with click stops; 12 diameters enlargement at baseboard; manual and automatic focusing; glass sandwich and metal negative carriers; provisions against Newton's rings; film advance without removing roll; lamp-house tilts to permit bigger enlargements; distortion control; built in red filter; control switch on baseboard. Price, $150 including tax.

LEITZ FOCOMAT Ib

Vertical; takes film sizes from single frame 35 mm to 1 9/16 x 1 9/16; single condenser illumination; 75-watt opal lamp on recommended 110 line voltage; 50 mm coated f/3.5 anastigmat lens; click stops; up to 10 diameters enlargement on baseboard with standard lens; automatic focus; metal negative carrier; film advance without removing roll; film guide protects film in combination with condenser pressure plate; adjustable focusing clamp; masking carrier plates. Price, $143.50.

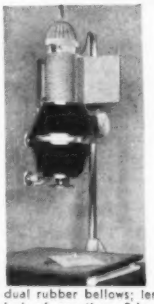
DIST., E. Leitz, Inc.

MAGNAR 66

Vertical; takes film size from 35 mm to 2¼x2¼; designed for use as projector also; single condenser system; uses 75-watt No. 211 enlarging lamp; 110 recommended line voltage; thermal-draft ventilation; 3-inch Ilex f/4.5 lens supplied; 8½ diameters at baseboard; helical focusing; metal negative carrier; film advance without removing roll; lamp-housing swings to permit bigger enlargements; tilting head for distortion control; built-in red filter; 2¼x2¼ red film carrier. Price, $49.75 including tax. Accessories include glassless negative carrier.

MFR., Kay Photographic Co.

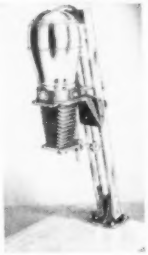
MASTERLITE



Vertical and horizontal; designed for use as a projector also; takes film sizes from 35 mm to 4x5; combination 2-element condenser and opal diffusion illumination system; 250- to 500-watt enlarging lamp; ventilation provided by top baffles; 127-mm coated f/5.6 Colorstigmat Enlarging lens; click stops; 20 diameter enlargement on baseboard; micrometer and rack-and-pinion focusing; metal negative carrier; lamp house tilts and swings to permit bigger enlargements; built-in red screen for focusing; dual rubber bellows; lens can be focused within ½-inch of negative. Price, less lens, $108.35 plus tax.

MFR., Laminex Engineering.

MPI THIRTY TWO



Vertical; takes film sizes from 35 mm to 2¼x3¼; flashed opal diffusion illumination; uses G-E 211 enlarging lamp; 3½-inch f/6.3 Ilex enlarging lens; 5 diameters enlargement at baseboard; micrometer focusing; metal negative carrier; film advance without removing roll; swivel head; line switch; spring loaded floating negative carrier; Price, with lens, $53.30 including tax. Accessories available include masks, and condenser systems.

MPI FIFTY FOUR

Vertical; takes film sizes from 35 mm to 4x5; flashed opal diffusion illumination; uses G-E 211 enlarging lamp; optional lens equipment; rack-and-pinion focusing; combination glass sandwich negative carrier; lamp-housing swings and tilts; swivel head; double inclined steel uprights. Price, less lens, $69.50 plus tax.

MFR., Merritt Products, Inc.

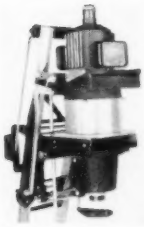
OMEGA B-4

Vertical; takes film sizes from 35 mm to 2¼x3¼, double condenser system; 110 line voltage recommended; 75-watt enlarging lamp; optional lens equipment from 2 to 3½-inch focal length; rotating negative holder; manual focusing; enlarger turns 180 degrees to make bigger enlargements; built-in red filter. Price, $99.50 plus tax.

AUTOMEGA B-3

Vertical; takes film sizes from 35 mm to 2¼x3¼; triple condenser system; 110 line voltage recommended; 75-watt enlarging lamp; optional lens equipment ranging from 2 to 4-inch focal lengths; up to 15 diameters enlargement on baseboard; automatic focusing, color head; rotating negative carrier; 18x27 baseboard; enlarger can be revolved 180 degrees. Price, $175.35 including tax.

OMEGA D II



Vertical; takes film sizes from 35 mm to 4x5; 2-element condenser illumination system; 75-watt opal enlarging bulb; recommended line voltage 110; dynathermal ventilation; optional lens equipment; from 4½ to 16 diameter enlargement on baseboard; micrometer focusing; metal and glass sandwich negative carriers; provisions against Newton's rings; built-in red screen for focusing; interline control switch. Price with color head, $194.80; without color head, $178.90. Accessories include copy attachment, micro attachment, etc.

AUTOMEGA E-3

Vertical; takes film sizes from 2¼x3¼ to 5x7; opal diffusion illumination with 6W low voltage fluorescent lamp; recommended line voltage 110; optional lens equipment; up to 9 diameter enlargement on baseboard; automatic focusing; metal and glass sandwich negative carriers; distortion control by negative tilting; built-in red screen for focusing; electric shutter; color head; rotating lamphousing. Price, without lens, $325 plus tax. Accessories include copy attachment, manual focusing attachment, tilting easel board, etc.

MFR., Simmon Brothers, Inc.

PRECISE NO. 125

Vertical; takes film sizes from 35 mm to 2¼x3¼; flashed opal diffusion illumination; No. 211 opal enlarging lamp; 2-inch Ilex Anastigmat f/6.3 lens in iris diaphragm; metal negative carrier; provision against Newton's rings; 6 film size masks; built-in red screen and masking device; control switch on cord. Price, $42.50 including tax.

PRECISE 160A

Vertical; takes film sizes from 35 mm to 2¼x3¼; flashed opal diffusion; uses No. 211 enlarging lamp; 110-115 line voltage recommended. 3½-inch Acromatic f/7.1 lens with Waterhouse stops; click stops; 5 diameters enlargement at baseboard; manual focusing; metal negative carrier; film advance without removing roll; lamp-house swings to permit bigger enlargements, built-in red filter; masks included for all sizes. Price, $22.20 including tax.

MFR., American Photo Laboratories.

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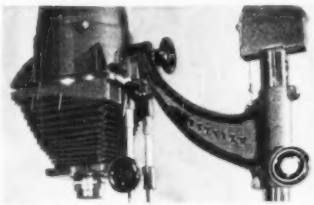
MFR., Prolarger.

SALTZMAN 30 WRC

Vertical; takes film sizes up to 5x7; condenser type; 4½-inch seamless steel tubular column; cast iron base; built-in cut-offs for framing; double focusing slides; lensboard tips and tilts, with vernier scales; snaplocks at zero tip and tilt position; control to focus lamp; automatic focusing with camera and lens motion; equipped with 500-watt enlarging lamp; 30x30 baseboard; all operating controls located on the base of the machine at the front. Price on request.

MFR., J. G. Saltzman, Inc.

SKYVIEW DGE 4x5



Vertical; takes film sizes from 35 mm to 4x5; also any 6¼-inch diameter section of 8x10 without cutting; 2-element condenser illumination system; No. 212 enlarging lamp on 110 line voltage; sealed-radiant cooling ventilation; friction focusing; metal negative carrier; provision against Newton's rings; film advance; lamphouse tilts and swings; distortion control; built-in red screen for focusing; control switch on cord; rotating negative carrier. Price, less lens, $169.

SKYVIEW DGE 23

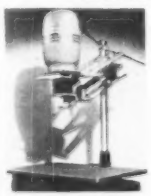
Similar to above in design and features; takes film sizes from 35 mm to 2¼x3¼; also any 4¼-inch diameter section of 5x7 negative without cutting. Price upon request. Accessories include wall mounting assembly, foot switch.

SKYVIEW DGE 352

Similar to above in design and features; takes film sizes from single frame 35 mm to 2x2; also any 3¼-inch diameter section of 4x5 negative without cutting. Price upon request. Same accessories as above.

MFR. Cleveland Instrument Service Co., Inc.

SOLAR AUTO 66



Vertical; takes film sizes from 35 mm to 2¼x2¼; combination condenser system; 150-watt enlarging lamp; 110-120 line voltage recommended; coated 3-inch Wollensak Raptar f/4.5 lens; 10½ diameters enlargement at baseboard; automatic focusing; metal negative carrier; film advance without removing roll; built-in red filter table-top switch; 20x27 baseboard; provision against Newton's rings. Price, $119.50 plus tax.

SOLAR AUTO 35

Similar to the Auto 66 except that it takes 35 mm film sizes only; equipped with coated 2-inch Wollensak Raptar f/4.5 lens; 15 diameters enlargement at baseboard; automatic focus. Price, $99.50 plus tax.

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SOLAR 57

Vertical, can be used horizontally; takes film sizes from 35 mm to 5x7; designed for use as a projector; groundglass diffusion illumination; 150 watt on 115 line voltage; optional lens equipment; rack-and-pinion focusing; glass or metal negative carrier; provision against Newton's rings; lamp house tilts and swings; distortion control; built-in red screen for focusing; toggle switch on table top; non-actinic baseboard. Price, without lens, $72.50 plus tax. Accessories include camera back, microscope adapter, carriers, copy stand, etc.

SOLAR 57 HC

Vertical; takes film sizes from 35 mm to 5x7; 2-condenser system; 150-watt enlarging lamp; 110-120 recommended line voltage; optional lens equipment; rack-and-pinion focusing metal and glass sandwich negative carriers; provision against Newton's rings; lamp-housing swings to permit bigger enlargements; distortion control; built-in red filter; toggle switch built in baseboard; heavy base casting; parallel supporting arms for lamp-house; focusing arrangement for user to select focusing range relative to focal length of lens being used. Price, $249.50 plus tax.

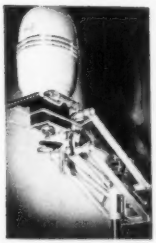
SOLAR 45C

Vertical, can be used horizontally; takes film sizes from 35 mm to 4x5; designed for use as a projector; 2-element condenser illumination system; optional lens equipment; rack-and-pinion focusing; metal negative carrier; movable lamp housing; toggle switch on table top; double-extension bellows. Price, without lens, $119.50 plus tax. Accessories same as for Solar 120 model.

SOLAR 45D

Similar to Model 45C; diffusion-type unit with Solar light equalizers; optional lens equipment; provision against Newton's rings; distortion control. Price, $72.50 plus tax.

SOLAR AUTOFOCUS



Vertical; takes film sizes from 35 mm to 2¼x3¼; combination condenser illumination system; 3½-inch coated Wollensak Raptar f/4.5 Enlarging lens; 9 diameters enlargement on baseboard; metal negative carrier; autofocusing; film advance; distortion control; built-in red screen for focusing; toggle switch on table top; masks included for 2¼x3¼ film size. Price, $129.75 plus tax. Accessories include camera back, carriers.

SOLAR 4x5 AUTO

Vertical; takes film sizes from 35 mm to 4x5; 2-condenser system; 150-watt enlarging lamp; 110-120 line voltage recommended; coated 5¼-inch Kodak Anastigmat f/4.5 lens; 6¼ diameter enlargement at baseboard; automatic focusing; metal negative carrier; built-in red filter; toggle switch in baseboard heavy base casting; self-ventilating lamp-house. Price, $298.50 plus tax. Electrically operated model with push-button control available, $474.50 including tax.

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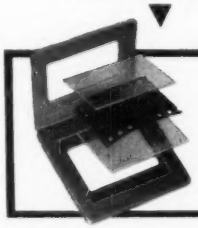

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SOLAR 120

Vertical; takes film sizes from 35 mm to 2¼x3¼; designed for use as a projector also; 2-element condenser illumination; 150 watts; optional lens equipment; rack-and-pinion focusing; metal negative carrier; masks included for 2¼x3¼ film size or whatever size requested; film advance without removing roll; lamp-housing tilts and swings; table-top toggle switch; double extension bellows; oversize condensers; interchangeable lenses. Price, without lens, $55 plus tax. Accessories include camera back, microscope adapter, copy stand, wall bracket, and lenses.

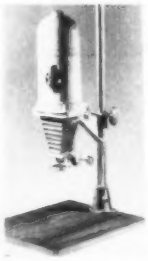
SOLAR 45QL

Vertical; takes film sizes from 35 mm to 4x5; 2-condenser system; 150-watt enlarging lamp; 110-120 line voltage recommended; self-ventilating housing; optional lens equipment; rack-and-pinion focusing; special quick-loading negative carrier arrangement; distortion control; built-in red filter; parallel arm supporting system; toggle switch in baseboard; 2'x 32 baseboard. Price, $219.50 plus tax.
MFR., Burke & James, Inc.

SUN RAY MASTERCRAFT 45

Vertical; takes film sizes from 35 mm to 4x5; combination condenser-diffusion system; 75-watt opal enlarging lamp; uses coated 135-mm Wollensak anastigmat f/4.5 lens; rack-and-pinion focusing metal negative carrier; lamp-housing swings to permit bigger enlargements; built-in red filter; switch on line cord. Price, less lens, $106.38 including tax.

SUN RAY MASTERCRAFT 23



Vertical; takes film sizes from 35 mm to 2¼x3¼; flashed opal diffusion; uses 75-watt enlarging lamp; 3½-inch f/6.3 Ilex enlarging lens; 16 diameters on baseboard; micrometer focusing; glass sandwich negative carrier; masks included for assorted film sizes; built-in red screen for focusing; Price, $45.43 included glass pressure plates and 6 assorted fibre masks. Accessories available include glassless masks, and condensers.

SUN RAY ARNOLD MODEL D

Vertical and horizontal; takes film sizes from 35 mm to 2¼x3¼; designed for use also as a projector; has combination 2-element condenser, and opal diffusion illumination; uses 75-watt enlarging lamp; 3½-inch f/4.5 Ilex enlarging lens; 16 diameters obtainable on baseboard; micrometer focusing; metal negative carrier; masks for 2¼x3¼ film sizes; film advance without removing roll; lamp house

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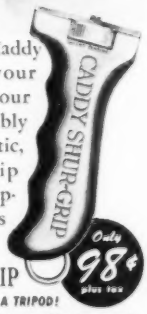

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Vertical; takes 35 mm film only; combination condenser-diffusion system; 100-watt enlarging lamp; 110 line voltage recommended; 2-inch Anastigmat f/6.3 lens; 6 diameter enlargement on baseboard; micrometer focusing; metal negative carrier; provision against Newton's rings; film advance without removing roll; lamp-house swings to permit bigger enlargements; toggle switch on line cord; enlarger can be disassembled for storage. Price, $19.95 including lens.

MFR., Spiratone.

STANDARD EN-100

Vertical; fixed-focus enlarger; takes 35 mm film only; designed for use as projector also; flashed opal diffusion system; 150-watt No. 212 enlarging lamp; 120 line voltage recommended; 2-inch Schneider Cogswell 3-element lens; makes 3½x5 enlargements; metal negative carrier; film advance without removing roll; momentary contact under cover. Price, $19.50 plus tax.

MFR., Standard Metal Products Co.

TELETUBE KOPYKIT—CONVERSION MODEL

Vertical; takes 35 mm, and Korelle 2¼x2¼ film sizes; 2-element condenser illumination system; has heat filter added; uses 75-watt enlarger lamp; shielded perforations in top for ventilation; utilizes camera lens for ultimate performance; film advance without removing roll; lamp-housing swings; 360° negative rotation; off-on switch, directly on front of lamp; independent mounting of assemblies makes it relatively vibration-proof; used also as copy unit; groundglass viewer with magnifier for copy work. Price on request.

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UTICAM V

Vertical; takes film sizes from 35 mm to 4¼x5⅛; opal diffusion illumination; 250-watt G-E No. 213 enlarging lamp; convection ventilation; use your own camera for lens and focus by attaching to base of enlarger; rack-and-pinion focusing; glass sandwich negative carrier; lamp house swings and tilts for bigger enlargements; switch on cord. Price $19.95, including tax. Accessories include 35-mm adapter to use film in roll form.

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SW—Single weight. DW—Double weight.

PAPER	TYPE	USE	SPEED	SIZES	CONTRASTS	SURFACES	COLORS	REMARKS
ANKEN								
SABLETONE	Chl-Br.	Enlarg.	Slow	†	1	1	1	Warm tones; suitable for all toning processes.
EBONY	Bromide	Enlarg.	Fast	†	4	1	1	S&DW. Cold tones. Both papers come in 60-inch rolls.
ANSCO								
CONVIRA	Chloride	Contact	Normal	*†	6	2	1	S&DW. Glossy, velvet; cold black tones.
CYKON	Chloride	Contact	Normal	*	4	3	1	S&DW. For portraits, commercial warm tone prints; suitable for gold tone.
CYKORA	Chl-Br.	Enlarg.	Fast	*†	4	3	1	S&DW. For portraits and commercial illustration.
PROOF	P.O.P.	Contact	.....	*	1	1	1	SW. For proofs. Print by daylight or arc.
SPEEDEX	Chloride	.....	Rapid	*†	5	1	1	SW. Glossy, for optical printers, blue-black tones.
BROVIRA	Bromide	Enlarg.	Fast	*†	4	1	1	S&DW. For pictorial, reproduction; good latitude, rich black tones.
PROJECTION PROOF	Bromide	Enlarg.	Fast	*†	1	1	1	SW. D.O.P.; rough surface minimizes retouching.
INDIATONE	Chl-Br.	Enlarg.	Normal	*	1	4	1	DW. Portrait, warm toned, good for sepia; gold tone.
SCONA REFLEX	Reflex	Copy	.....	*†	2	1	1	SW. For reflex copies; can use in subdued light.
DASSONVILLE								
CHARCOAL EMBER	Chl-Br.	Enlarg.	Slow	*†	1	8	2	SW. Warm tones; pictorial, portrait, etc.
CHARCOAL BLACK	Bromide	Enlarg.	Fast	*†	4	8	2	SW. Cold tones; same as above.
DEVOLITE								
DEVOLITE	Chloride	Contact	Slow	*†	3	1	1	SW. Darkroom not necessary; cold tones; glossy.
DEVODARK	Chloride	Contact	Normal	*†	10	2	1	S&DW. Two tones, warm and cold; available in frame-finished prebordered paper, as is Devolite.
DU PONT								
"APEX"	Chloride	Contact	Normal	*†	6	10	2	S&DW. Wide latitude in exposure and development; gives full scale value of negative.
"VELOUR BLACK"	Chl-Br.	Enlarg.	Normal	*†	4	17	2	S&DW. For portrait, pictorial, commercial; full scale; surfaces for every type of work.
WARMTONE TYPE 9034	Chl-Br.	Enlarg.	Normal	*	1	2	2	DW. Warm brown tone; rich scale of gradation.
"VARIGAM"	Chl-Br.	Enlarg.	Normal	*†	Variable	5	1	S&DW. With filters, gives any degree of contrast from extremely soft to very hard.
"IVORA"	Chl-Br.	Enlarg.	Normal	*	1	1	1	On white film base; for miniatures and coloring.
"ADLUX"	Chl-Br.	Enlarg.	Normal	*	1	1	1	Film, coated both sides; for rear illumination, etc.
CANVAS	Chl-Br.	Enlarg.	Normal	*†	1	.....	1	Fine texture fabric with Velour Black coating; has same quality as paper; takes oil colors.
EASTMAN								
AD-TYPE A	Chloride	Contact	Normal	*†	6	1	1	SW. Full scale; cold tones; folds without cracking.
ARISTO	Chloride	Contact	Normal	*†	3	3	2	DW. Full scale; for commercial and illustrative work.
ATHENA	Chloride	Contact	Normal	*†	3	4	3	DW. For portraits; warming brilliance and fine gradation.
AZO	Chloride	Contact	Normal	*†	6	4	1	S&DW. For amateur, portrait, and commercial work.
ILLUSTRATOR'S AZO	Chloride	Contact	Normal	*†	5	4	1	S&DW. Full scale, chiefly for illustrative work.
RESISTO	Chloride	Contact	Normal	*†	4	1	1	SW. Water-resistant base for rapid processing.
VELITE	Chloride	Contact	Slow	*	1	1	1	SW. Can be handled in normal room light; 3 sizes.
VELOX	Chloride	Contact	Normal	*†	6	1	1	SW. Amateur and photofinishing; blue-black tones.
STUDIO PROOF	P.O.P.	Contact	Slow	*	1	2	1	SW. For proofs. Print by daylight or arc.
ILLUSTRATOR'S SPECIAL	Chl-Br.	Enlarg.	Normal	*†	1	2	1	S&DW. Pure white stock; full scale, rich tones.
KODABROMIDE	Chl-Br.	Enlarg.	Fast	*†	5	3	2	S&DW. Rich black tones, full-scale emulsion; for commercial, pictorial, news work.
OPAL	Chl-Br.	Enlarg.	Normal	*†	1	13	2	DW. For portraits, exhibition prints; warm tones, full scale; wide variety of surfaces.
PLATINO	Chl-Br.	Enlarg.	Fast	*†	3	3	3	S&DW. For higher speed printing; full scale.
PORTRAIT PROOF	Chl-Br.	Enlarg.	Fast	*†	1	1	1	SW. Rough, D.O.P. for proofs, murals, etc.
RESISTO RAPID	Chl-Br.	Enlarg.	Fast	*†	4	1	1	SW. Water resistant base for rapid processing.
ROYAL BROMIDE	Bromide	Enlarg.	Very Fast	*†	4	1	1	S&DW. Extreme speed for portrait, pictorial work.
VELOX RAPID	Chloride	Enlarg.	Slow	*†	5	1	1	SW. For optical printers, full scale, rich tones.
UNICONTRAST V.R.	Chloride	Enlarg.	Slow	†	1	1	1	SW. Same as above, longer scale.
CARBRO PAPER	Chl-Br	Enlarg.	Fast	*†	1	1	1	SW. Special paper for making carbro prints.
SUPER SPEED DIR. POS.	Bromide	Camera	Fast	*†	1	1	1	SW. Reversal. Positives by exposure in camera.
TRANSLITE	Chl-Br.	Enlarg.	Fast	*	1	1	1	Film, coated both sides; for rear illumination, enlarged negatives, etc.
KODAGRAPH CONTACT	Chloride	Contact	Normal	*†	1	3	1	SW. For reflex copies; 8x10 to 36x42; smooth luster; also smooth matte tracing cloth.
GEVAERT								
NOVAGAS	Chloride	Contact	Normal	*†	4	4	1	S&DW. Wide latitude in printing. Glossy surface.
ARTEX PROJECTION	Chl-Br.	Enlarg.	Normal	*†	3	6	3	DW. Warm tones for portrait work. Rough surface
LARJEX	Chloride	Con-Enl	Fast	*†	5	1	1	SW. For oversize prints, optical printers, glossy.
P.O.P. PROOF	P.O.P.	Contact	Normal	*	1	1	1	SW. For proofs. Print by daylight or arc; glossy.
GEVALUXE VELOURS	Bromide	Enlarg.	Slow	*	1	1	1	DW. For portrait, pictorial; warm tones; velour surface.
NOVABROM	Bromide	Enlarg.	Normal	*†	5	4	1	SW. In 50-inch rolls for photo murals.
MULTI-CONTRAST	Chloride	Enlarg.	Fast	*†	1	1	1	SW. Designed for use with strip printers and optical printers.
PROJECTION PROOF	Ch-Br.	Enlarg.	Normal	*†	2	1	1	SW. Warm tone emulsion on a rough matte base.
GRANT								
DIREX	Direct Pos.	Camera	Fast	*†	1	1	1	For making direct positive prints by chemical reversal of emulsion. Used in the camera.
HALOID								
MALO	Chloride	Contact	Normal	*†	4	1	1	S&DW. Glossy, cold tones, full scale of gradation.
INDUSTRO	Chloride	Contact	Normal	*†	4	3	1	S&DW. Wide latitude, warm tones, portrait, commercial.
MALOBROME	Chl-Br.	Enlarg.	Fast	*†	4	3	1	S&DW. For commercial photography, photofinishing.
PORTRAYA	Chl-Br.	Enlarg.	Normal	*†	1	1	1	DW. For portrait enlargements, warm tones, wide latitude.
PORTRAYA PROJECTION PROOF	Chl-Br.	Enlarg.	Medium	*†	1	1	1	SW. For photo murals and portrait proofs.
ILFORD (Alco Photo Supply Co.)								
Commercial	Bromide	Enlarg.	Fast	*†	4	4	2	S&DW. For commercial and portrait work.
De luxe	Bromide	Carbro	Fast	*†	1	1	1	Long range; cold tones.
Plastika	Chl-Br.	Enlarg.	Fast	*†	4	4	2	S&DW. Wide latitude; no blocking in shadows, warm blacks.
ILLINGSWORTH (Alco Photo Supply Co.)								
DE LUXE BROMIDE	Bromide	Carbro	Fast	*†	1	1	1	Long range; cold tones, for carbro and bromoil work.

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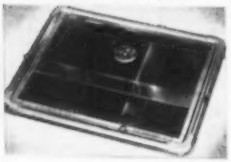
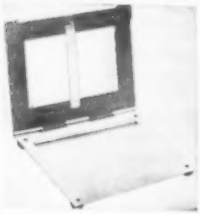
AIREQUIPT DIALMASTER



Takes up to 14x17 inch paper; all-metal construction; borders adjustable from 3/16 to 3/4 inch; automatic 1/16-inch borders on 14x17 size; self-aligning masking bands; Silent Assistant adjusts top margin and left margin with twist of the dial; rubber, non-skid base. Price, $13.95 plus tax.

AIREQUIPT PEE-WEE



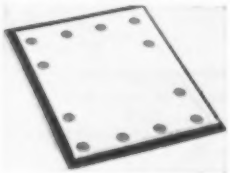
Fixed-frame easel for 35-mm blow-ups; 2 sizes in one—3 1/2x5 and double 2 1/2x3 1/2; uses half of 5x7 paper; automatic 1/4-inch border; self-locking paper stop; rubber feet. Price, $2.95 including tax.

AIREQUIPT 4-WAY

Takes 4 paper sizes, 2 1/2x3 1/2, 4x5, 5x7, and 8x10; all metal construction; built-in paper stops with a fixed frame for 1/4-inch margins. Price, $6.50 plus tax.

MFR., Airequipt Mfg. Co.

ARTCO BORDERLESS

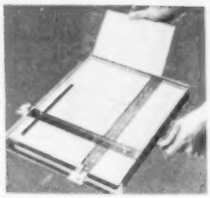


Available for 8x10 and 11x14 paper; metal easel with composition holder; uses entire paper area; flat surface with holes backed by adhesive patches. Price, 8x10 size, $2.50 including tax; 11x14 size, $3.10.

MFR., Artcrafters Industries.

ARKAY EASY-EASEL

Takes prints up to 11x14; all-metal construction; scale on masking arms; automatic sharp borders; paper in-

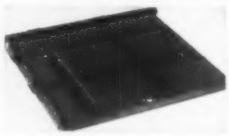


serted from right edge while platen is depressed by platen lever on side of easel. Price, $7.75 including tax; 5x7 Easy-Easel available at $5.50 including tax.

MFR., Arkay Corp.

BACO ENLARGING EASEL

Takes up to 11x14 paper sizes; combination metal construction with



heavy wooden base, masonite surfaced, non-actinic; scale on masking bands; rubber cushioned base to stop slipping. Price, $6.50.

MFR., Baco Accessories Co.

COLOR REGISTRATION EASEL MODEL B

Designed for accuracy and simplicity of registration in the Dye Transfer Process; consists of registering-punching Plexiglas board and 1/4-inch plate glass transfer board; pin system of registration use with allowance for expansion of matrices; stainless steel punch bar. Price, 11x14 size, $39.50 plus tax; 16x20 size, $55.20. Pan Matrix Board for transfer; 1/4-inch plate glass with inserted pins to fit Pan Matrix film. Price, up to 8x10, $13.50 plus tax; up to 16x20, $16.80.

MFR., Condit Mfg. Co.

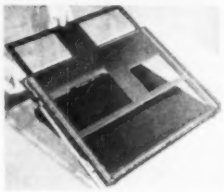
DANDY EASEL

Takes paper sizes up to 11x14; all metal construction; scale on side arms; all-around adjustable borders

from 1/4 to 1 1/4; movable paper holder finished in durable white for focusing; washable surface. Price, $12.

DIST., Willoughby's.

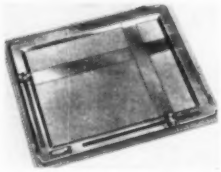
DE GROFF TWO WAY PUSH



Takes paper sizes up to 11x14; all aluminum construction with chrome rail and spring steel masking strips; scale on side arms; automatic self-centering easel; instant interchangeability to glass for borderless prints; fixed masks for prints with standard size borders; adjustable mask strips for borders from 3/16-inch size and larger. Price, $24.75; for 16x20 size, $65.

MFR., De Groff Laboratories, Inc.

FEDERAL 10-A



Takes paper sizes up to 8x10; metal construction; scale on border arms; removable masking arms to make 7 1/2x9 1/2 enlargements on 8x10 paper with 1/4-inch borders; felt base; hinged masking frame; thumb notches for opening and closing frame. Price, $5.95 including tax.

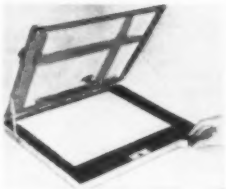
MFR., Federal Mfg. & Eng. Corp.

FEATHER EASEL

Takes up to 11x14; metal construction with composition filling; borderless easel; easel composition is dyed black; to be available for color printing. Price, $7.95 plus tax. A 16x20 model is available for $15 plus tax.

MFR., Hollywood Photo Mfg. Co.

FR AUTOMATIC

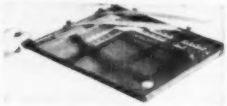


Takes paper sizes up to 11x14; laminated base, all-metal parts finished in polished aluminum or crackle finish; scale on masking arms; arms are directly geared; no locking or unlocking necessary; turn knobs to adjust margins; all-around adjustable borders from 1/4 to 2 inches; a "third" knob permits automatic setting of top and left hand margins simultaneously; a "third" hand grasps paper when mask is lowered and holds it while easel is being closed. Price, including tax, $27.

MFR., The FR Corporation.

GLOBE EASEL

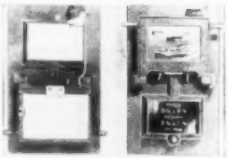
Takes paper sizes up to 11x14; all metal construction; baseboard ruled scale; set borders for 5x7,



8x10, and 11x14 sizes; all four masking bands are raised by single lever. Price, $9.45.

MFR., Globe Industries, Inc.

G & R MINIATURE ENLARGING EASEL



Takes paper sizes up to 8x10; brass, steel construction with lamicoid felt; fixed opening and paper guides for accurateness and speed; numbers while you print; opening and border to order; 75 different sizes. Price varies up to $56 including tax.

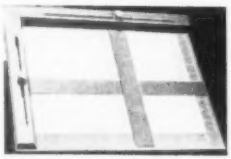
MFR., Goetz & Ruschmann.

GLUCK

This is a natural plastics compound which, when melted in hot water and poured in a tray of the proper size, will produce a borderless easel like the Feather Easel; it is available in a 1-pound can, which will make a 12x15 easel; two 1-pound cans will make a 17x20 easel. Price for 1-pound can, $1.95.

MFR., Hollywood Photo Mfg. Co.

KA-I-KO



Takes paper sizes up to 11x14; wood and metal construction; baseboard ruled scale; all-around borders adjustable from 1/4 to 2 inches; white focusing base. Price, $5.95 including tax.

MFR., U. S. Photo Equipment Corp.

KODAK METAL 8x10 ENLARGING EASEL

Takes paper sizes up to 8x10; all metal construction; scale on masking arms; any desired all-around border widths; non-skid base. Price, $11 plus tax.

KODAK 11x14

Takes up to 11x14 paper sizes; wood and metal construction; scale on side arms; all-around adjustable borders from 1/4 to 3/4 inches; tilting legs sold separately, permit correcting distorted perspective. Price, $25 plus tax.

KODAK 17x20

Takes paper sizes up to 17x20; wood and metal construction; scale on side arms; all-around adjustable borders from ½ to 2½ inches; for use with any vertical enlarger. Price, $65 plus tax.

MFR., Eastman Kodak Co.

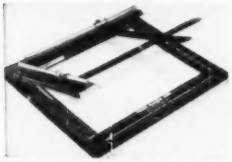
MULTI-PRINTER

Takes paper sizes up to 8x10; metal construction; no scales necessary; will print 2, 4, or 8 prints on one 8x10 sheet; after paper is loaded, lights may be turned on to change negatives; baseboard legs

for distortion control. Price, $4.85.

MFR., Grover Photo Products.

PRECISE NO. 20



Takes paper sizes up to 11x14; all metal construction; baseboard-ruled scale in 1/16 inches; all-around borders adjustable from ¾ to 1½ inches; baked japanned baseboard with white focusing surface; instantly adjustable masking bands. Price, $7.50 including tax.

MFR., American Photo Laboratories, Inc.

PREMIER SENIOR

Takes paper sizes up to 11x14; all-metal construction with aluminum base covered by felt pad; scale on side arms; surface coated white for focusing; automatic paper clamp

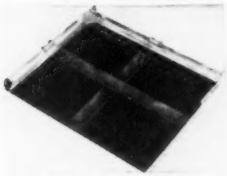
engages paper when frame is lowered to hold paper in place; margin control permits independent adjustment of horizontal and vertical borders. Price, $9.50 plus tax.

PREMIER JUNIOR

Identical to the above, except that it takes paper sizes up to 8x10. Price, $8 plus tax.

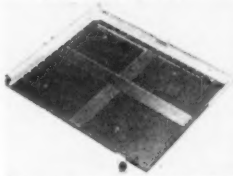
MFR., Photo Materials Co.

RADIANT STANDARD



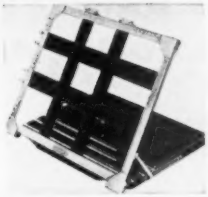
Takes paper sizes up to 8x10; adjustments from 1/8 to ½ inch; wood baseboard; scales in 1/8-inch graduations; steel masking bands; self-aligning positive masking; skid-proof felt base. Price, $9.95.

RADIANT 1114



Takes paper sizes up to 11x14; steel baseboard; scale on steel frame; self-adjusting masking band; Sta-tight slot to hold paper; positive lever for margin adjustment from ¼ to 1½ inches; skid-proof base. Price, $11.95.

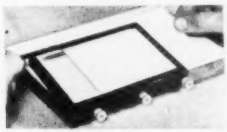
RADIANT AUTOMATIC



Takes paper sizes up to 11x14; margins from 1/8 to 1½ inches; automatic paper centering; channels for all paper sizes; self-centering masking bands; special masking arms; scale on frame. Price, $24.95.

MFR., Radiant Specialty Corp.

RELHAM SPRINGFRAME

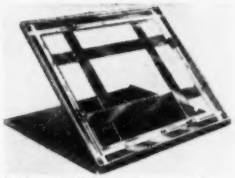


Two models to take paper sizes up to 8x10 or 5x7; hardwood base with washable plastic focusing surface; fixed-border easel; supplied with steel springframes which correspond with popular paper sizes; frames are interchangeable. Price, 8x10 model with 7 springframes, $7.20 including tax; 5x7 model with 5 springframes, $4.80 including tax. Special sizes on request.

MFR., Relham Products Co.

SAUNDERS MODEL E

Takes paper sizes up to 14x17; all metal construction; adjustable from 1¾x1¾ inches up to 14x17 inches; constant center; border adjustment by calibrated scale on individual blade; basket-weave blades hold paper flat; paper slots automatically square up paper of standard sizes;



hold-open click stop for paper insertion; cushioned rubber base; can be used for borderless prints. Price, $22 plus tax.

MFR., Saunders Company.

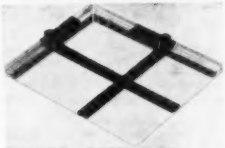
SPEED-EZ-EL

All metal construction; requires no adjustments; paper inserted from

either end to provide even borders; gray focusing surface; washable; non-skid base; available in six sizes. Prices, for 2½x3½, $1.20; 3½x5, $1.39; 4x5, $1.50; 4x6, $1.45; 5x7, $2.11; 8x10, $3.06, and 11x14, $4.17. All prices are with tax included.

MFR., A. J. Ganz Co.

SUN RAY MODEL 4

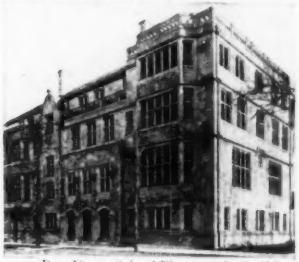


Takes paper sizes up to 8x10; all-metal construction; scale on side arms; white figures on black background; widths of all-around borders available from ¼ inch up; steel masking bands; white enamel base for focusing. Price, $4.50 including tax. Model 5 takes paper sizes up to 11x14 inches; price, $6.50 including tax.

MFR., Sun Ray Photo Co., Inc.

RAY-VOGUE

SCHOOL OF PHOTOGRAPHY



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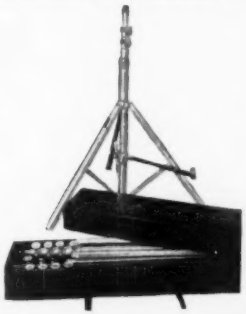

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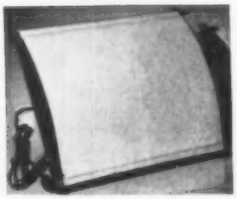
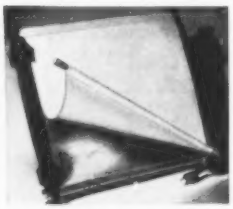
PRINT DRYERS

AREL



Kent Single Dryer. Electrical, a-c or d-c; for semi-matte, matte, and glossy prints; accommodates up to 5x7 prints; takes ferrotype tins; made of polished aluminum drying surface and washable canvas. Price, $6.95 plus tax.



Kent Double Dryer. Electrical, a-c or d-c; takes up to 5x7 prints, semi-matte, matte, and glossy prints; takes ferrotype tins; dries eight 5x7 prints at one time. Price, $9.95 plus tax.
DIST., Arel, Inc.

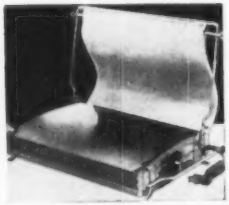
ARKAY

Arkay Model A-24. Electrical; adjustable apron tension mechanism; disconnect switch; chrome surface; variable heat selector; drying area, 19½x24; 110x120 a-c recommended line voltage. Price, $48.05 including tax.

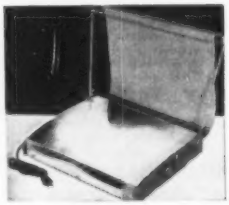
Arkay Model A-20. Same features as Model A-24 except that drying area is 15¼x21 inches. Price, $43.35 including tax.

Arkay Flipper F-14. Electrical; takes up to 11x15 prints; 2 drying

surfaces; accommodates ferrotype tin; 110 a-c, d-c recommended line voltage; 265 watts; double-sided dryer; unit controlled by fixed heating element electronically measured not to overheat; variable apron tension. Price, $14.25 including tax. With 2 built-in chrome ferrotype plates, $19.41.



Arkay Flipper F-17. Electrical; accommodates prints up to 12x17 (2 drying surfaces); takes ferrotype tins; thermostatic control; 110-120 a-c recommended line voltage; 430 watts; heat selector provides complete control over a large range of temperatures. Price, with chrome ferrotype tin built in, $29.42; without, $20.95 including tax.



Arkay E-10. Electrical; takes up to 11x15 prints; optional built-in ferrotype tin; takes ferrotype tins; 110 a-c or d-c recommended line voltage; 205 watts; single-sided dryer; all welded steel construction; balanced heating element. Price, $8.65 including tax; with built-in chrome ferrotype tin, $11.10, including tax.
MFR., Arkay Corp.

BURKE & JAMES

Rexo Double Duty Dryer. Electrical; will take 750 2¼x3¼ prints per hour; takes 2 prints up to 18x24 inches; takes 2 ferrotype tins; thermostatic control; 115 recommended line voltage; reversible, dries matte or glossy prints. Price, $52.
MFR., Burke & James, Inc.

FEDCO

300 Twin Surface. Electrical; takes up to 2 prints 16x20; accommodates

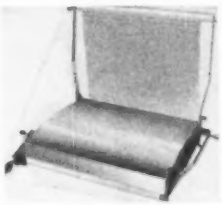
ferrotype tin; 110 recommended line voltage; 350 watts; handy knobs to turn dryer; tension device for keeping apron tight. Price, $21.95.

200 Twin Surface. Similar to the above model in features and design; takes 2 prints 11x14; 210 watts. Price, $11.

100 Single Surface. Same as above except has only one surface taking up to one 11x14 print; 105 watts. Price, $7.75.

Continuous Motor Driven Drum Dryer: Electrical; drum is 14" wide and 38" in circumference; built-in ferrotype tin; 375 watts; 110, recommended line voltage; will take 40 matte or glossy 8x10 prints per hour; air cooled motor; variable speeds. Price, $150, plus tax.
MFR., Fedco Products.

LEE METAL



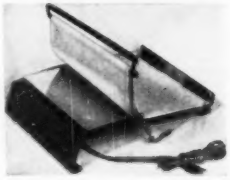
Lee Duplex Model 602. Electrical; takes prints up to 11x14; 2 drying surfaces 13x15½ inches; ceramic insulators separate heating elements from body of dryer; accommodates 11x14 ferrotype tins; canvas apron has 3 tensions; dual set of rubber feet; 110 a-c or d-c recommended line voltage. Price, $10.95.

Lee Duplex Model 602A. Same as Model 602 except has thermostat for complete control through wide range of temperatures; 110 a-c recommended line voltage. Price, $13.95.
MFR., Lee Metal Products Co.

LIGHTNING-LITE

Portrait Print Dryer. Electrical; takes 350 8x10 prints or its equivalent; accommodates prints up to 19x25"; time controlled so that unit will shut off at pre-set drying period; dries face-up with proper curvature; uses blotter - corrugated - cardboard stack method; heat passes through narrow way for rapid drying; all-metal construction. Price, $145 plus tax.
MFR., Lightning-Lite Co.

LOTT



Fast Flat. Electrical; accommodates prints up to 10x14 inches; separate ferrotype tin; accommodates 10x14 ferrotype tins; 110 line voltage recommended; adjustable self-centering canvas apron; includes cellulose squeegee polishing cloth. Price, $6.95 including tax.

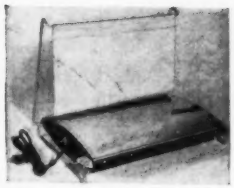
Lott Roto Dryer-Professional Model. Electrical; takes 40 10x14 prints per hour, or 360 3x5 prints per hour; drum-type rotary dryer; mirror finish stainless steel surface, 23x28 inches; 110-120 recommended line voltage; 300 watts; weighs 24 lbs.; pre-shrunk drying belt. Price, $29.95 plus tax.

RotoMaster Model. Same as Professional Model except it has all-welded construction; built-in squeegee; adjustable curtain tension; all-metal roller; adjustable temperature control; weighs 29 lbs. Price, $44.30 plus tax.

Amateur Model. Same as the Professional model except has a 12x28 inch drying surface. Price, $19.95 plus tax.
MFR., Lott Mfg. Co.

PREMIER

Premier Model 110 SC. Electrical; takes 8 4x5 prints or 2 8x10; accommodates prints up to 11x16 inches;

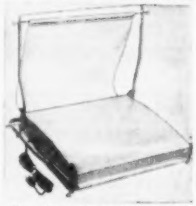


built-in ferrotype tin; 110 recommended line voltage; thermostatic control; special opening levers to release canvas apron. Price, $9.95 plus tax.

Premier Model 110 SP. Similar features as Model 110 SC except has no built-in ferrotype tin; accommodates prints up to 11x16 inches. Price, $7.95 plus tax.

Premier Model 110 TC. Similar to the Model 110 SC except has 2 drying surfaces; takes 16 4x5 prints or 4 8x10; built-in ferrotype tins. Price, $12.95 plus tax.
MFR., Photo Materials Co.

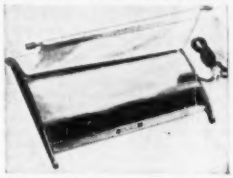
STERLING-HOWARD



Sterling-Howard Duplex. Electrical; 2 drying surfaces, 12x15 inches; canvas apron with automatic tension locks; rubber feet; 6-foot cord; 225-watt nichrome-wire heating element; for a-c or d-c operation. Price, $7.95.
MFR., Sterling-Howard Corp.

WILLOUGHBY'S

Superb Print Dryer Model 200. Electrical; takes up to 11x14 prints; accommodates 10x14 ferrotype tins; thermostatic control; 110 recommended line voltage; 200 watts; 11½x15 inch drying surface; has clips to hold ferrotype tins in place; double-faced drying area; dries eight 5x7 prints at one time. Price, $11.



Superb Print Dryer Model 100. Same construction features as the above model; takes one 11x14 print at one time; one drying surface that accommodates a 10x14 ferrotype tin; uses 100 watts on 110 a-c or d-c line voltage. Price, $7.75.
DIST., Willoughby's.

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USED SPECIALS

Here are a few of the many fine bargains that we have to offer in the way of used cameras, projectors, and other choice photographic equipment. All the equipment is fully guaranteed, and sold subject to our 10 day money back guarantee.

Miniature Cameras

Argus A, f4.5 lens, 35mm	$ 9.95
Argus A2, 35mm, f4.5 lens, built-in meter	16.50
Argus C-3, 35mm, f3.5 coated lens, flash, case	39.50
Bolsey, 35mm, f3.2, coupled rangefinder	39.50
Kodak Bantam, f4.5 Anast. lens	24.50
Adox, 35mm, f4.5 lens	17.50
Kodak Retina Ia, super fast f2, cpld r.f.	99.50
Kodak 35mm, f3.5 ctd lens, cpld r.f.	59.50
Contax I, 5cm Sonnar f2 lens	97.50
Contax II, 5cm Sonnar f2 lens	159.50
Contax II, 5cm Sonnar f1.5 lens	189.50
Contax III, 5cm Sonnar f2 lens	194.50
Contax III, 5cm Sonnar f1.5 lens	234.50
Universal Mercury II, f2.7 ctd lens	29.50
Leica A, Elmar f3.5 lens	49.50
Leica D, Elmar f3.5 lens	97.50
Leica F, Elmar f3.5 lens	124.50
Leica G, 5cm Summar f2 lens	139.50
Leica IIIC, 5cm Summitar f2 lens	209.50
Leica IIIC, 5cm Factory ctd Summitar f2	239.50

Slide Projectors

Kodaslide Model 1A, f3.5 ctd lens, 150 Watt	20.49
Kodaslide Model 1IA, coated lens, 200 Watt	35.75
Argus Model PA100 Watt, coated lens	20.99
TDC Model B, 2x2 slides, 150 W, ctd lens	37.98
TDC Model D, 2x2 slides, 300 W, ctd lens, bl.	54.50
Golde Manumatic, 300 Watt, blower, case	44.50
SVE Model AAA, 300 W, roll or 2x2 slide, case	59.70
SVE Entertainer, 300 Watt, case	52.50
Kodaslide Master, f3.5 coated lens, case	126.50
B&H Duomaster, f3.5 coated lens, case	67.50
Golde Master, 3½x4, 500 Watt	52.50

Movie Cameras

Bell & Howell Sportster, f2.5 lens	69.50
Universal Cinemaster II, f2.5 coated lens	79.50
De Jur, 8mm Magazine, f2.5 coated lens	74.50
Revere 8mm, B&L f2.8 Magazine, Model 70	78.50
Kodak 8mm Model 20, f3.5 lens	39.50
Kodak 8mm Model 60, f1.9 fce lens	49.50
Revere Model 99, Turret, f1.9 ctd focusing	59.50
Franklin 8mm Magazine, f2.5 coated lens	49.50
Kodak 16mm Magazine f1.9 lens	99.50
Cine Kodak Model K, K A., f1.9 lens	99.50
Revere 16mm, Magazine f2.5 coated lens	89.50
Bell & Howell 16mm Model 70, 100', f3.5 lens	49.50

Silent Movie Projectors

Ampro 16mm Imperial, 750 Watts	139.50
Bell & Howell Diplomat, 750 Watts	179.50
Ampro Model AS-, 750 Watts	94.50
De Jur 8mm Model 750, 750 Watts	98.50
De Jur 8mm Model 1000, 1000 W, Cardomatic	114.50
Keystone 16mm Model A-82, 750 Watts	69.50
Keystone 8mm Model R-8, 500 Watts	49.50
Revere 8mm Model 85, 500 Watts	59.50
Bodoscope 8mm Model 33, 500 Watts	49.50

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DEVELOPING TANKS

ACE PHOTO DEVELOPING TANK NO. 2179

Sheet film, filmpacks, or plates; up to 8x10; liquid capacity approx. 3½ gals.; hard rubber construction; light-proof cover. Price on request.

Tank No. 2181. Similar to above, except has floating cover; hard rubber construction. Price on request.
MFR., American Hard Rubber Co.

ANGELUS COLOR TANK

Sheet film, filmpacks, 2¼x2¼ to 5x7 models; capacity 1 qt.; 2 qt. for 5x7 model; holds up to 10 hangers; darkroom loading; Bakelite construction; metal cover, locks and screws. Prices, $6.90 and $11.95, including tax.
MFR., Schoen Products Co.

BACO PLASTIC DEVELOPING TANK

Sheet film, filmpacks; 4x5 inches; plastics construction; light-proof cover; rounded corner; takes 18 Baco hangers; 12 Kodak 4A hangers. Price, $7.68, including tax.

BACO STAINLESS STEEL DEVELOPING TANK

Similar in features and characteristics as the plastic model, except is made of stainless steel and available in 4x5 and 5x7 inch models. Price, $9.65, including tax.
MFR., Baco Accessories Co.

CARR SEAMLESS DEVELOPING TANK

Sheet film, filmpacks, plates; 2¼x3¼ to 11x14; darkroom or daylight; takes 6 to 30 hangers; liquid capacity 1 qt. to 50 gal.; takes all roll sizes; stainless steel seamless weld construction. Prices on request. Available accessories include top and floating lids, vane agitators.
MFR., Carr Corporation.

CINE REEL HOME PROCESSOR

For 16 or dbl. 8 mm film; up to 100 feet; liquid capacity 1 gal.; Allegheny metal construction; has take-up bar to counteract film stretch; includes reel, tray, and drying rack. Price, $19.95.
DIST., Superior Bulk Film Co.

DEEPSTER

Roll film; daylight loading; 35 mm to No. 120; liquid capacity 1 gal.; no reel; plastic construction, film is held by clips in vertical position; sets of two tanks, one for developer, and other for fixing bath. Price, for both tanks, wall brackets, caps, and film clips, $8.90, tax included. Available accessories include 36 exp. 35-mm holder.
MFR., Glen Camera Products.

EBE DAYLIGHT ROLL FILM DEVELOPING TANK

Roll film; 8 mm to No. 122; up to 25 feet; liquid capacity 2 qts.; stainless steel construction; bakelite reel and geared spools; film wound from one spool to other by external crank handle; film loading device; spring clutch to prevent film tearing. Price, $19.75.
MFR., Ebe Mfg. Co.

ECLIPSE

Takes film sizes from 35 mm to 2¼x4¼ inches; adjustable; daylight; liquid capacity 1 pt.; plastic construction; pouring and filling vents; shatter-proof. Price, $1.75, plus tax.
MFR., Eclipse Mfg. Co.

FEDCO ADJUSTABLE

Takes film sizes from 35 mm to No. 116; daylight; adjustable; bakelite construction. Price, $2.75 plus tax.

FEDCO SHEET FILM

Sheet film; 2¼x2¼ to 2¼x3½ inches; adjustable; capacity of 12 sheet films; bakelite construction; reel fits most roll film tanks. Price, $3.50, including tax.

FEDCO ADJUSTABLE SHEET FILM

Sheet film, filmpacks; from 2¼x2¼ to 4x5 inches; adjustable; daylight; capacity of 12 sheets; bakelite construction; loading device. Price, $6.95, including tax.
MFR., Fedco Products.

FR 35 mm TANK

Roll film 35 mm; capacity 36 exposures; liquid capacity 16 oz.; daylight; bakelite construction; built-in thermometer well; unreeling prevention device. Price, $4.10, including tax.

FR ADJUSTABLE CUT-FILM-PACK TANK

Sheet film and filmpacks, 4½x6 cm to 4x5 inches; capacity for 12 films; adjustable; daylight; plastic construction; liquid capacity 52 oz. Price, $9.30 including tax. Model made of bakelite, $7.95.

FR ADJUSTABLE ROLL FILM TANK MODEL C

Takes rolls from 35 mm to No. 116; adjustable; daylight; liquid capacity 28 oz.; bakelite construction; built-in thermometer well; unreeling prevention device. Price, $5.25 including tax. Double flange for developing 2 rolls of 35 mm available as accessory.

FR SPECIAL MODEL 2

Takes rolls from 35 mm to No. 116; adjustable; daylight; liquid capacity 16 oz.; plastic construction; built-in thermometer well; locking cover. Price, $3.95, including tax.
MFR., The FR Corp.

HOLLYWOOD ROLLFILM TANK

Takes rolls from 35 mm to No. 116; adjustable; daylight; stainless steel construction; extra flange available for developing 2 rolls of 35 mm at one time; adapted for Ansco Color or Ektachrome. Price, $7.95, including tax.

HOLLYWOOD CUTFILM TANK

Sheet film; 2½x2½ to 4x5; takes 18 hangers; liquid capacity 2½ qt.; darkroom type; plastic construction; notched lip for hanger separation. Price, $2.65.
MFR., Schoen Products Co.

KAYE NO. 380

Takes film sizes from 5x7 to 8x10 inches; sheet film or filmpacks; open type; capacity 36 5x7 hangers or 24 8x10 hangers; hard rubber construction; 3 gal. capacity; one compartment; overlapping light-proof cover. Price, $18.25, including tax.
MFR., Kaye X-ray Products, Inc.

KEMP DEVEL-O-TANK

Sheet film, filmpacks, plates; 35 mm to 4x5; takes 12 sheets; liquid capacity, 64 oz.; adjustable; hard rubber construction; stainless steel and hard rubber reels; covers and film rack replaced free if broken. Price, $15.95.
MFR., Kemp Camera Supply Co.

KINOPLEX

35-mm rolls; darkroom loading; daylight developing; takes up to 36-exp. rolls; liquid capacity 11 oz.; not adjustable; Allegheny metal construction; bakelite reel; good agitation. Price, $4.25. **Super Kinoplex** model, same as above, except daylight loading.
DIST., Frederick D. Fisher.

KODAK DAY-LOAD TANK

For 35 mm developing; exposed film transferred to reel in daylight; stainless steel and plastic construction; internal cut-off knife; magazine chamber and top form unit. Price, $9.85.

KODAK HARD RUBBER TANK

Sheet film or plates 4x5 inches; open type; up to 6 films in hangers; liquid capacity ½ gal.; floating lid. Price, $2.65. Available in 5x7 inch size, $3.45; 8x10 size, $10.
MFR., Eastman Kodak Co.

LEITZ CORREX

35 mm; takes 6 feet of film; liquid capacity 17 oz., bakelite construction; bakelite reel; accommodates two films back-to-back; available accessories include agitators. Price, $10.50.
MFR., E. Leitz, Inc.

LOADOMAT 20

Takes rolls No. 120 and No. 620; daylight type; liquid capacity 12 oz.; stainless steel and bakelite construction; automatic loading; hands never touch film; recommended for color work. Price, $12.32, including tax.
MFR., Prime Photo Products, Inc.

MICRO D10 FILM DEVELOPING TANK

8-mm to 35-mm roll film; daylight type; takes up to 200 ft.; liquid capacity up to 2 qts.; plastic construction; motor driven; automatic; portable, accessories include reels, rubber hose, transparent tank. Price, $129.

MICRO D20 FILM DEVELOPING TANK

35-mm and 70-mm roll film; daylight type; takes up to 100 ft.; liquid capacity up to 3 qts.; plastic construction; motor driven; automatic; portable; accessories include reels, rubber hose, transparent tank. Price, $237.
MFR., Micro Record Corp.

MORSE 5x7

Takes sheet film sizes from 3¼x4¼ to 5x7 inches; capacity of 6 films; liquid capacity ½ gal.; darkroom type; hard rubber construction. Price, $3, plus tax.

Model available with same characteristics except has capacity for 16 films; liquid capacity 2 gals. Price, $6.36, plus tax.

MORSE G-3 DEVELOPER

Takes rolls from 16 to 35 mm; capacity 100 feet; adustable; daylight type; liquid capacity 3 pts.; bakelite construction; stainless steel reels; for either negative or reversal processing; automatic agitation; for black-and-white, or color. Price, $22.50, plus tax.

MORSE M-70 COLOR FILM PROCESSING OUTFIT

Takes sheet film 3¼x4¼ to 5x7 inches; capacity for 6 films; darkroom type; liquid capacity ½ gal.; stainless steel water jackets with splash guards; thermometer well; 3 sizes for accommodating from three to eight hard rubber tanks with floating covers; water circulation; portable. Prices range from $52.50 to $110, plus tax.

MORSE 507 DAYLIGHT DEVELOPING OUTFIT

Takes sheet film 3¼x4¼ to 5x7 inches; capacity for 16 films; daylight type; stainless steel and hard rubber construction; includes light-tight film holder and lid; 3 solution tanks; 2 floating covers; no handling of film loading until drying. Price, $42.50, plus tax.

MORSE M-10 AUTOMATIC

Takes rolls from 35 mm to 9½ inch size widths; adjustable; capacity from 5 to 200 feet; darkroom type; stainless steel construction; motor-driven; automatic reversing. Price, $175 plus tax.
MFR., The Morse Instrument Co.

NIKOR

Stainless steel tank for roll film; daylight type; not adjustable.

No. 1 for size No. 127 (1⅝x1⅝ to 1⅝x2½); 16 oz. maximum capacity; $8.50, including tax.

No. 2 for size No. 120 (1⅝x2¼ to 2¼x3¼); 16 oz. maximum capacity; $8.50, including tax.

No. 4 for size No. 116 (2x2½ to 2½x4½); 16 oz. maximum capacity; $8.50, including tax.

No. 5 for size No. 122 (3¼x4¼ to 3¼x5½); 20 oz. maximum capacity; $11.65, including tax.

No. 6 for size No. 118; 20 oz. capacity; $11.65, including tax.

No. 33 for two 35 mm rolls; 16 oz. maximum capacity; $11.85, inc. tax.

No. 35 for one 35 mm roll; 8 oz. maximum capacity; $7.50, inc. tax.

NIKOR ADJUSTABLE FILMPACK AND SHEET FILM TANK

Stainless steel daylight developing tank with capacity of 12 films in sizes from 2¼x3¼ to 4x5 inches; liquid capacity 36 oz.; adjustable film cage. Price, $16.50.
DIST., Burleigh Brooks Co.

PRICE MONOTANK 45

Sheet film, filmpacks, or plates, up to 4x5 inches; daylight type; up to 12 films; liquid capacity 2 qts.; plastics construction; can process various sizes of film at one time. Price, $5.95, including tax.
MFR., Price Industries Corp.

RADIANT FOUR IN ONE DEVELOPING TANK

Adjustable; 35-mm to No. 116 rolls; darkroom type; bakelite construction. Price, $3.95.
MFR., Radiant Specialty Corp.

REELRITE DEVELOPING TANK

35-mm to No. 116 rolls; daylight type; liquid capacity 26 oz.; plastic construction; bakelite reel; adjustable; available accessories include transparent reels for color processing. Price, $2.50.
MFR., Testrite Instrument Co., Inc.

SUPERB

Takes rolls from 35 mm to No. 116; adjustable; daylight type; plastics construction; positive lock cover; thermometer well; spiral feed reel. Price, $3.10.
DIST., Willoughby's.

TOWER

Takes rolls from 35 mm to No. 616; adjustable; daylight type; liquid ca-

pacity 1 qt.; bakelite construction; locking top. Price, $1.89.
DIST., Sears, Roebuck and Co.

UNIPLEX

Roll film; from 35 mm to No. 116; adjustable; liquid capacity to 20 oz.; darkroom loading and daylight developing; bakelite construction; good agitation; available accessories include funnels. Price, $4.25.

SUPER UNIPLEX DAYLIGHT AUTOMAT

Roll film sizes No. 120, No. 620; daylight type; not adjustable; liquid capacity 18 oz.; Allegheny metal construction; bakelite reel; good agitation. Price on request.
DISTR., Frederick D. Fisher.

WATSON

For 35 mm roll film only; daylight type; stainless steel construction; bakelite reel. Price, $3.50, plus tax.
MFR., Burke & James, Inc.

WOLFF DEEP TANK

For rolls from 8 mm to No. 116, sheet film, filmpacks, and plates; daylight type; capacity for 1 roll or 15 sheets of film; liquid capacity 28 oz.; hard rubber construction. Price, $6.85. Sheet film holders and washer available as accessories.

WOLFF SUPER

Takes rolls from 8 mm to 5" widths; takes sheet film and film packs from 2¼x3¼ to 5x7; liquid capacity ½ gal.; no adjustments required; daylight type; takes up to 15 sheets of film; for reversal or negative processing; can develop various roll sizes at one time; also more than one size of sheet film at one time; loads wet or dry; hard rubber construction. Price, $12.50 plus tax.
MFR., Wolff Mfg. Co.

YANKEE ADJUSTABLE ROLL FILM TANK

Takes rolls from 35mm to No. 116; adjustable; daylight type; liquid capacity from 16 to 26 oz.; bakelite construction; engraved capacity chart on cover; thermometer well; wet or dry loading. Price, $2.95 including tax.

YANKEE ADJUSTABLE CUT PACK FILM AGITANK

Takes sheet film or filmpacks from 2¼x3¼ to 4x5; adjustable; daylight type; liquid capacity from 36 to 55 oz.; capacity for 12 sheets of film; reverse curve grooves; agitation projections under tank; solution capacity chart on cover. Price, $6.21 including tax.

YANKEE CLIPPER ROLL FILM TANK

Takes rolls from 35 mm to No. 116; adjustable; daylight type; liquid capacity from 8 to 16 oz.; plastic construction; capacity chart on cover; wet or dry loading. Price, $2.95 including tax.

YANKEE UTILITY TANK

Takes sheet film or filmpacks from 2¼x3¼ to 4x5; darkroom type; liquid capacity 32 oz.; takes 12 films in hangers; bakelite construction. Price, $2.25 including tax.
MFR., Windman Brothers.

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ONCE-A-YEAR Abe Cohen's Exchange SALE

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MOVIE CAMERAS
EQUIPMENT

Here's the event you've been waiting for! It's Abe Cohen's Exchange pre-inventory sale of demonstrator and shopworn equipment. It's your chance to get a camera or accessory that's "like new" at a substantial saving. Many items are one-of-a-kind and we suggest that you order promptly. Your old equipment will be accepted in trade. Use handy coupon below.

MOVIE EQUIPMENT

	List	Sale
Revere Model "88" camera, coated F2.5 lens	$74.50	$52.50
Revere Model "70" Magazine 8mm, coated F1.9 lens	145.00	101.50
Revere Model "99" 8mm Turret, coated F1.9 lens	122.50	85.00
De Jur Fadematic Magazine 8mm, coated F1.9 lens	109.50	104.50
De Jur Model 1000, 8mm Projector, 400 ft. reel	159.50	119.50
Keystone A7 16mm camera, coated F2.5 lens	74.50	52.50
Victor Model 3, 16mm camera, Dallmeyer F1.5 lens	210.00	135.00
Revere Magazine 16mm camera, coated F2.5 lens	130.00	92.50
Revere Magazine 16mm camera, coated F1.9 lens	150.00	105.00
Keystone Model K160 Projector, 750 watt	119.50	84.50
Kodascope Sixteen 10 Projector, 750 watt	129.50	94.50
Revere 16mm Sound Projector, 750 watt, case	299.50	210.00
½" Berthiot F1.9 lens for 8mm cameras	39.50	12.50
9mm Kodak coated F2.7 wide angle lens for Cine Kodak Magazine Eight camera	49.75	36.95
2" Bell & Howell Evmax F4.5 Telephoto lens, 16mm	59.50	32.50
2" Kodak coated F1.6 Telephoto lens, B or 16mm	94.50	69.50
4" Kodak coated F2.7 Telephoto lens, 16mm	84.50	62.95
6" Dallmeyer F4.5 Telephoto, 16mm	115.50	62.50
Focusing Finder for Cine Kodak Magazine 16mm camera	32.08	22.50
Focusing Finder for Cine Kodak Magazine 8mm camera	29.50	19.95

STILL CAMERAS

	List	Sale
35mm Argus A2, coated F4.5, case	$37.58	$25.00
35mm Argus 21, coated F4.5, case	60.25	45.00
35mm Argus C3, coated F3.5, R.F., case, flash	78.08	52.50
Argoflex EF, coated F4.5, case	83.25	52.50
35mm Bolsey Model B, coated F3.2, case	63.15	47.50
2¼ x 2¼" Ansco Titan, coated F4.5, flash shutter	69.50	54.50
2¼ x 2¼" Voigtlander Baby Bessa, coated F4.5, flash shutter	49.50	39.50
2¼ x 3¼" Monte Carlo, F4.5 lens	49.75	29.50
2¼ x 3¼" Kodak Medalist II, coated Ektar F3.5, case	312.50	229.50
2¼ x 3¼" Pacemaker Speed Graphic, Ektar F4.5, R.F.	232.00	185.00
2¼ x 3¼" R.B. Ser. B Graflex, Ektar F4.5 coated	124.50	89.50
3¼ x 4¼" Ralart camera, F4.7 coated lens, flash	287.50	215.00
3¼ x 4¼" Pacemaker Speed Graphic, Ektar F4.7, lens	206.75	165.00
4 x 5 Korona View, less lens	50.00	35.00
5 x 7 Eastman View 2D, case, holder, less lens	145.00	89.50

DRASTIC REDUCTIONS ON NEW CAMERAS

Every camera listed here is brand new. All have been reduced in price for immediate clearance. Since the supply is limited we suggest you order promptly.

	List	Sale
*2¼ x 2¼" Uniflex I, coated F5.6 lens	$55.00	$27.50
*35mm Mercury II, coated F2.7 lens	82.90	41.45
*35mm Mercury II, coated F2 lens	110.00	49.50
*35mm Buccaneer, coated F3.5, R.F.	65.00	32.50
*2¼ x 3¼" Universal Roamer II, coated F4.5	48.00	27.50
Cinemaster II 8mm Movie camera, coated F2.5	66.65	33.33
Cinemaster II 8mm Movie camera, coated F1.9	96.75	48.38
Universal PC 500 8mm Projector	75.00	37.55
*35mm Kine Exakta II, Tessar F3.5 coated, case	175.00	129.50
*35mm Kine Exakta II, Zeiss Biotar F2 coated, case	275.00	189.50
Rolleicord II A, coated Zeiss Triotar F3.5, case	140.00	93.50
Rolleicord II A, coated Schneider Xenar F3.5, case	155.00	111.95
Auto Rolleiflex II, coated Xenar F3.5, case	220.00	169.50

*Has built-in flash

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MOVIE EDITING EQUIPMENT

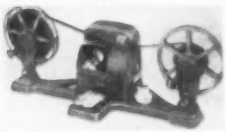
ADVANCE CINE

A.C.E. Rotary Viewer. For 35 mm; all-metal construction; manual and electrical operation; permits viewing of film between rewinds; forward or backward, at rewinding speed; has oil-less bearings; magnifier gives undistorted viewing; frame counter. Price, $145.
MFR. Advance Cine Equipment.

AMPRO

Ampro 600 Splicer. For 8 and 16 mm film, silent or sound; dry splice type; single shearing action cuts, trims both ends of film; steel shearing blades adjustable to various width splices; makes pressure-welded splice under tension. Price, $14.25.
MFR., Ampro Corp.

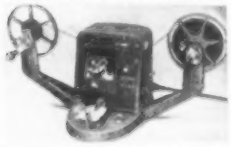
BAIA



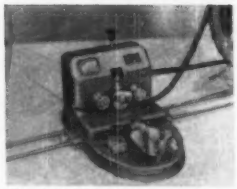
Baia Editor. For 8 or 16 mm; all-metal construction; manual operation; in combination with splicer, viewer, and 2 rewinds; action-type viewer; self threading. Prices, 8-mm std. model $42.50; Deluxe, $54.50; 16-mm std., $42.50; Deluxe, $59.50.
MFR. Baia Motion Picture Engineering, Inc.

BELL & HOWELL

Filmotion Editor 16 mm. For 16 mm; all-metal construction; manual operation; in combination with splicer, viewer, and 2 rewinds; Viewer has groundglass with magnifying lens; diagonal splice; 2-speed geared rewinds with brake; frame identification device; gives brilliant, miniature movies on 3x2½" screen. Price, $151. Case available as accessory.



Filmotion Editor 8 mm. For 8 mm; all-metal construction; manual operation; in combination with splicer, viewer, and two rewinds; viewer has groundglass with magnifying lens; diagonal splice, geared rewinds; gives miniature movies, 2¼x1¾" screen. Price, $118. Case available as accessory.

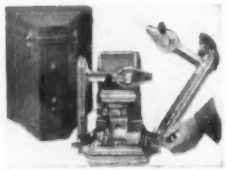


Film Defect Indicator. For 16 mm; all-metal construction; combined manual and electrical operation; mechanically inspects 16 mm sound or silent film perforations; flashes warning light when damaged perforation is encountered; can be combined with other elements to make complete 16 mm editing outfit. Rewinds and splicers available as accessories. Price, $95.
MFR. Bell & Howell Co.

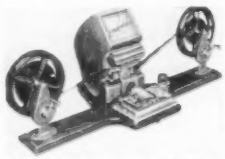
BOLSEY

Bolsey Senior Splicer. For 8 and 16 mm film; all stainless steel construction; cuts both ends automatically; grooves to stop cement creeping; scraper has four scraping areas; wooden base with rubber feet; mounting holes. Price, $13.50.
MFR. Bolsey Corp. of America.

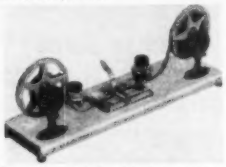
CRAIG



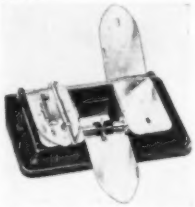
Craig "Fold-Away" Projecto-Editor. All-metal construction; manual and electrical operation; in combination with splicer, viewer, and 2 rewinds; electric illumination viewer; flickerless action editing on 3⅛x4¼" screen; matched light equal to normal home projection; features folding arms which permit storage in compact luggage-type carrying case; available in 8 or 16 mm combinations. Prices from $75.00 to $91.50; folding base only, $7.50; carrying case only, $15. All new Projecto-Editors can be converted to folding models.



Craig 8 and 16 mm Projecto-Editors. Similar to above model, but without folding baseboard; wood and model construction. Price, 8 or 16 mm viewer only, $47.50; 8-mm Combination Model E811 with Junior 400-ft. rewinds and Junior splicer, $57.50; Model E821 with Junior rewinds and Senior splicer, $65; Model E822 with Senior 400-ft. rewinds and Senior splicer, $69.50. 16 mm Combinations: Model E1622 with Senior rewinds and Senior splicer, $69.50; Model E1623 with Master 2000-ft. rewinds and Senior splicer, $71.50.



Craig Rewind Combinations. Available in 3 models: Craig Junior Combination with Craig Junior rewinds, 400-ft. Craig Junior splicer, film cement, water container on wood base; price, $10.50. Craig Senior Combination for 8 or 16 mm; includes Senior splicer, Senior rewinds, brake for speed and tension control; mounted on wood base. Price, $25. Craig Master Combination for 8 or 16 mm; similar to Senior Combination but with Master rewinds for 2000-ft. reels. Price, $27.50.

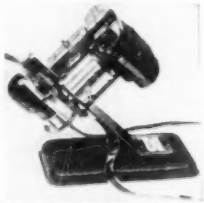


Craig Splicers. Craig Senior splicer for 8 or 16 mm sound and silent films; has built-in scraper; gives splice accurate to 1/5000 in.; steel construction; one-piece base. Price, $15. Craig Junior splicer for 8 or 16 mm silent films; operates on wet splice principle; chrome construction; mounted on wood base with film cement and water container. Price, $4.50.
MFR. Craig Mfg. Co.

FEDCO

Film Splicer. For 8 and 16 mm film; nickel plated; steel scraper; heavy construction with cast base. Price, approx. $7.95.
MFR. Fedco Products.

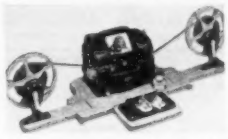
FEDERAL

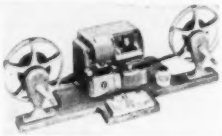


Federal Enlarging Camera. Enlarges movie frame on No. 127 film. 8 exposures, 1⅝x2½; roll of still film developed and printed in regular manner; built-in light source; magnifying Select-A-Frame device for choosing individual frames; selected frame locks into place; no cutting or splicing; unit adjustable to users' vision. Model 8A for 8 mm film; Model 16A for 16 mm film. Price of each, $19.95 including tax.
MFR., Federal Mfg. & Eng. Corp.

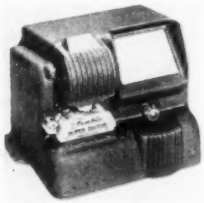
FRANKLIN

Franklin President Action Dual. For 8 and 16 mm; all-metal construction; manual operation; in combination with splicer, 2 rewinds and Franklin Viewer; has interchangeable optical system for 8 or 16 mm; notching device marks film frame viewed; framing device; cooling system; prism operated; 75-watt lamp; has collapsible mounting board; with case available as an accessory; Price, $85.88 with 16 mm optical mechanism; $85.85 with 8 mm optical mechanism. Price of case, $14.50.

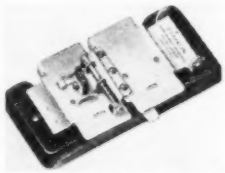




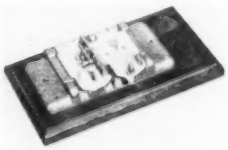
Franklin Super Action Editor. For 8 or 16 mm; aluminum construction; prism operated; manual operation; in combination with 2 rewinds, splicer, and viewer. Price, $44.50.



Franklin Super Action Viewer. For 8 or 16 mm; manual operation; prism operated; aluminum construction. Price, $32.50.

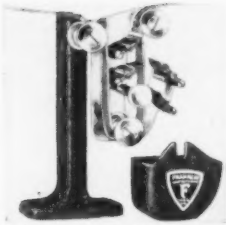


Franklin Standard Splicer. For 8 or 16 mm; metal base; dry scraper; cover and bottom plates hold film. Price, $5.65.



Franklin President Splicer. For 8 and 16 mm silent or sound film; made of stainless steel with metal cast base; cover and bottom plates hold film; right-hand assembly; easy adjustment; dry scraper. Price mtd. on board, $13.95.

Franklin Film Cleaner and Preserver. Can be permanently attached to the President Dual Editor or with any rewinds and projectors; interchangeable wiper blades squeeze excess fluid from film; chromium plated. Price, $12.95. Accessories in-



clude extra wipers, 25 cents each; 6-oz. bottles of fluid, 55 cents.

Franklin Splicer-Cleaner-Rewind Combination. For 8 and 16 mm; wood and metal construction; manual operation; standard splicer, 2 Super rewinds, Franklin Cleaner & Preserver unit; mounted on walnut-finished board. Price, $24.95.

Super Rewind and Standard Splicer Combination. For 8 and 16 mm; standard splicer; 2 Franklin Super rewinds; mounted on 24-inch board. Price, $14.95.

MFR. Franklin Photographic Ind.

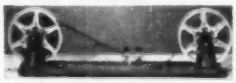
KIN-O-LUX

Kin-O-Pocket Splicer. For 8 and 16 mm; all-metal construction; manual operation; small, compact; packaged in plastic case with Kin-O-Stik Cement film binder; metal scraper. Price, $3.75.

MFR., Kin-O-Lux, Inc.

KODAK

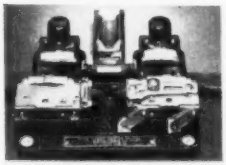
Cine-Kodak Senior Editor. For 8 and 16 mm; wood and metal construction; manual operation; in combination with Cine-Kodak Senior splicer, and 2 rewinds; combination mounted on hardwood base. Price, $37.50 including film cement. Accessories include Cine-Kodak Editing Viewer, 8 or 16 mm.



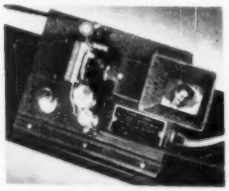
Cine-Kodak Junior Editor. Similar to the Senior model, except is equipped with Cine-Kodak Junior splicer. Price, with film cement, applicators, $13. Same accessories as the above model.

Cine-Kodak Master Editing Outfit. For 16 mm; all-metal construction; manual operation; in combination with Senior splicer, 2 Cine-Kodak Master rewinds, and the Cine-Kodak Editing Viewer; accepts all 16 mm reels through 1600 ft. capacity. Price, with film cement, applicators, $95.

Cine-Kodak Editing Kit. Available in 2 styles, for 8 or 16 mm; complete editing "work bench" in luggage-type carrying case 14-in. wide; includes rewinds, Cine-Kodak Editing view, and Senior splicer positioned for accessibility and working convenience; trays for film strips and space for reels and can provided. Price, either 8 or 16 mm, $85 including tax.



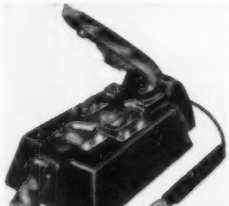
Cine-Kodak Senior Splicer. For 8 or 16 mm; designed for use with any horizontal rewind; secures, trims, scrapes, and welds film ends; metal base; compartments for cement and water bottles which are supplied. Price, $20 including tax.



Cine-Kodak Editing Viewer. For either 8 or 16 mm; metal base; gives illuminated, magnified view; metal base for mounting on any horizontal rewind board; marking device makes harmless nick on edge of film; operates 100-125 volts. Price, either 8 or 16 mm, $27.50 including tax.

MFR., Eastman Kodak Co.

LEKTRA

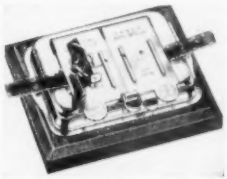


Splicemaster 8 & 16. Two models for 8 or 16 mm; weighs 5 lbs.; built-in cutter for butt ends; flash trimmer; built-in editing light; sprocket hole punch; timer compensates for line voltage changes; electric butt-weld splicing. Price, for 8 mm model, $34.50; for the 16 mm model, $34.50.

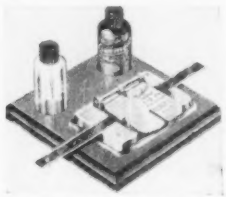
MFR. Lektra Laboratories, Inc.

MANSFIELD

Mansfield Junior Editor. For 8 and 16 mm; wood and metal construction; in combination with 2 horizontal rewinds, splicer, and reflex-type viewer; non-electric, for use in artificial or daylight; rubber bumpers on base; takes up to 2000 ft. reels. Price, with Junior splicer, $6.95; with Auto splicer, $10.95.



Mansfield Auto Splicer. For 8 and 16 mm; all-metal construction; double scraping blade; automatic pressure plate and spring release. Price, $6.95.



Mansfield Junior Splicer. For 8 and 16 mm; complete with mounting board and film cement; all-metal construction. Price, $2.95.

MFR., Mansfield Industries, Inc.

MARKS

Crest Film Viewer and Splicer. Two models for use with 8 or 16 mm; ball bearing focusing lens mount; on-off switch; all-metal construction; splicer has external scraper. Price, complete with cord, lamp and bottles, $9.95.

Marks Movie Viewer. For 8 and 16 mm; focusing lens; manual operation; provisions for mounting on rewind board; all-metal construction; 10-watt frosted lamp; 6 ft. cord. Price, $5.95.

MFR., Howard B. Marks Co.

MOSTOW

Da-Brite Movie Editor. Models for 8 and 16 mm; all-metal construction; manual operation; in combination with 2 Da-Brite rewinds, Standard splicer, and Da-Brite Movie viewer; built-in notcher; rewind board folds to make compact unit; carrying handle; film cement. Price, $14.95.

Da-Brite Movie Viewer. Models for 8 and 16 mm; all-metal construction; built-in notching device; adjustable focus magnifying lens; rolled edge film guide; off-on switch; lamp and cord. Price, $5.95.

DIST., Mostow Co.

MICO

Mico Film Editor. For 8 and 16 mm; can be changed from one size to the other; all-metal construction; large viewing screen; electrical operation; notching device marks film above frame to be cut for splicing. Price, $13.95.

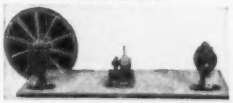
MFR., Mico Photo Products.

MOVIECRAFT

Movie-Still. Unit used in conjunction with still camera to enlarge movie frames; recommended for cameras using No. 120 or 116 size including reflex cameras; on 116 size film unit produces 1½x2 negative; on 120, 1-9/16x1-1/6 negative; device fits over camera lens while exposure is made; user can see enlarged view of selected frame before exposure; no cutting or splicing of film; for 8 and 16 mm. Price, $5.95 including tax.

MFR., The Moviecraft Co.

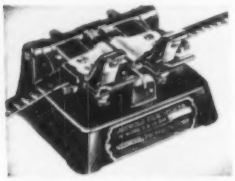
NEUMADE



Neumade Editing Board No. 1. For 16 mm; combination of Guswold Hm-6 Splicer and cement, and 2 Neumade RW-1 rewinds with 2000 ft. reel capacity; mounted white enamel wood panel with felt bottom and rubber feet. Price $42.

Power Rewind Assembly PD-1. For 16 mm; wood and metal construction; electrical operation, in combination with splicer; left-hand unit geared

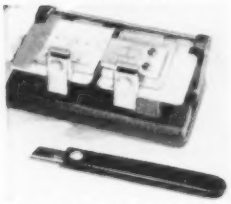
with instant stop arm-brake; speed of power unit controlled with foot rheostat; slip clutch provides protection against cinching; heavy-duty rewinds having 2000 ft. reel capacity. Price, $150.



Griswold Film Splicer HM-6. For 8 and 16 mm; all-metal construction; manual operation; base and jaws cast iron; bronze pressure springs; scraper holder complete with scraper blade; 2 extra scraper blades and felt emulsion moisteners; available with either positive or negative overlap. Price, $15.

DIST., Neumade Products Corp.

PAILLARD



Paillard Trifilm Splicer. For 8 and 16 mm sound and silent, and 9½ mm film; automatic adjusting cutting edges; replaceable locating pins; wet-type splice; special micarta knife scraping tool; extra blade supplied with each splicer; all-metal construction. Price, $19.95.

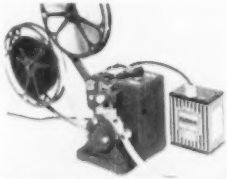
MFR., Paillard Products Corp.

REVERE

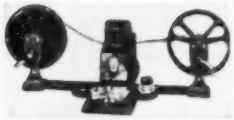
Revere Curvamatic. For 8 and 16 mm film, silent or sound; automatic shift overlaps film; automatic overlap; single arm incorporates cutting, scraping, and pressure; removable, replaceable scraper; weighted base with non-slip rubber tabs; film cement. Price, $16.50.

MFR. Revere Camera Co.

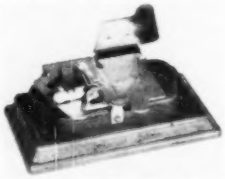
SCHOEN



Hollywood Jr. Printer. For 8 and 16 mm; sound and silent; color, black-and-white; motor drive; cast aluminum housing; graduated exposure meter for controlling light density; dial control allows presetting to desired density; film capacity, 400 ft.; 5-volt printing lamp; printing head has separate apertures for 16 mm printing from sound print, 16 mm sound track alone, 16 mm picture and sound together, 16 mm picture alone or 8 mm picture; operates 100-120 volts a-c; printing light powered by standard 7½-volt dry-cell battery. Price, $175 including tax.



Hollywood Movie Editor. For 8 and 16 mm; all-metal construction; manual operation; in combination with Hollywood splicer, Hollywood rewinds, and viewer, which has large projection on groundglass screen. Price, including extra 8-mm gate, $27.95 including tax.



Hollywood Splicer. For 8 and 16 mm film; steel scraper; metal construction with wooden base. Price, $5.95.

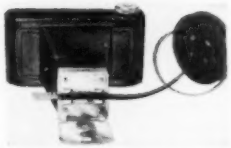
MFR. Schoen Products Co.

SUPERIOR

Cine Printer. For 8 and 16 mm; negative, positive, and color films; motor drive; all-metal construction; viewing window for visual printing control; 11 light adjustments for printing control; light powered by dry cell; film capacity, 400 ft.; operates 100-120 volts a-c; prints at rate of 20 ft. per minute. Price, $75.75 including tax.

MFR., Superior Bulk Film Co.

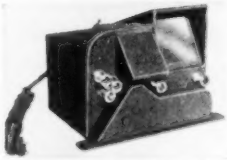
TESTRITE



Cinelarger 8-16. Enlarges movie frame on No. 620 film; roll of still film developed and printed in regular manner; used in conjunction with No. 2 floodlamp; no cutting or splicing; built-in lens and shutter. Price, for either 8 or 16 mm model, $14.95 including tax.

MFR. Testrite Instrument Co., Inc.

U. S. PHOTOGRAPHIC



Kaydee Movie-Action Editor. For 8 or 16 mm; manual operation; electrical illumination; 3x4 viewing screen; all-metal construction; ventilation provision; can be mounted on rewind board; off-on switch. Price, less lamp, $19.95.

MFR., U. S. Photographic Equip. Corp.

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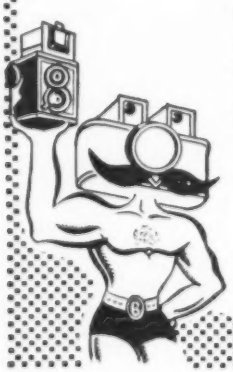

On trading cameras, Bass is "strong"
In deals with him, you can't go wrong
Just write and tell him of your view
On trading old stuff for his new
He's known world-over for his "swaps"
Write Bass today . . . his deals are
"tops"!

Charles Bass
President

"Quality Since 1910"

Bass Camera Co.
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ANSCO COLOR FILM DEVELOPED
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MOVIE TITLERS

A-to-Z

Kodachrome Color Title Outfit. Makes titles in 6 colors using 8x10 backgrounds; uses script letters on photographic backgrounds; set includes 1800 initials, 12 alphabets; 6 jars of colors; 8 backgrounds; tracing paper, brush, pencil, distance chart and title background holder. Price, $6.50.

MFR., A-to-Z Movie Accessories.

AREL

PM Movie Titler. For 8 and 16-mm cameras; all-metal construction; full size titler with built-in lights; professional attachments; 36" overall length; 9x12" titling board with interchangeable ground and clear glass; provisions for running titles, flips, zooms, scrolls, rolls, double exposures, tabletop photography; permits full size letters and character. Price, including copying lens, universal camera base, reflector, sockets, and cords, $39.50 plus tax.

DIST., Arel, Inc.

BARDWELL & McALISTER

Mult-Efex Titler. Two models for 8 and 16-mm cameras; the only difference is the diopter size of the auxiliary lens on the 16 mm model; makes zooms, scrolls, rolls, flip-flops, swing - forward - and - back, swing around, wipes, and other titles; for trick effects and split screens; equipped with Mult-Efex Aligner for centering of titles and small objects; all-metal construction. Price on request.

MFR., Bardwell & McAlister, Inc.

DE JUR

Title Camera Stand EPC. For 8 and 16-mm cameras; wood and metal construction; can be used with still cam-

eras; vertical-type titler; handles title sizes from 3x4 to 15x20; counterbalanced camera support; lights with flexible supports; large baseboard; camera support. Price, $46.85 including tax. Available without lights if desired.

MFR., DeJur-Amsco Corp.

GOERZ

Goerz Effect and Title Device. For 8 and 16-mm cameras; wood and metal construction; focusing scope is mounted next to camera; has magnifying eyepiece; masked groundglass for correct focusing; vignetting device adjustable up or down; fits over large aperture of f/1.5 lenses; includes filter holder, mask box, book-style paper carrier, movable title standard; base slide for holding camera, and title attachment with long rods. Price, $183.50.

MFR., C. P. Goerz American Optical Co.

HOLLYWOOD CINE

Master Titler. For 8 and 16-mm cameras; all-metal construction; automatic alignment when camera is locked into position on the camera base; tailored camera base; covers areas from 4 inches to 40 inches from the camera lens; includes track, title holder, lens holder, 12 auxiliary lens; camera base, tripod plate, centering disc, centering target, lens spring, and instruction booklet. Price, $11.10, plus tax. Accessories include Titltrix, for trick and effect shots, $5.50 plus tax; Titlites, for lighting title area, $5.50, plus tax; Titlettes, metal letters, Titlkit, kit of scenes, and Titliner E for aligning titles, $5.56 including tax.

MFR., Hollywood Cine Products.

KELSEY

Excelsior Printing Press. For 8 and 16-mm use; all-metal machine uses regular printer's type and regular printer's cuts; complete with type ink and all accessories for printing titles. Price, $38.56 and up. Accessories include variety of type styles, cuts, fancy borders, etc.

MFR., The Kelsey Co.

KODAK

Cine-Kodak Titler. For 8 and 16-mm cameras; all-metal construction; designed for all Cine-Kodak cameras except Model A and Special; package of title cards included; base, easel, centering guide, 5¼" supplementary lens. Price, $7.50, plus tax. Accessories available include titler base for Magazine 8 camera, and tripod-titler base for Magazine 16 camera.

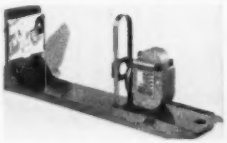
MFR., Eastman Kodak Co.

PHOTO MATERIALS

Premier Titler Model WL. For 8 and 16-mm cameras; all-metal construction; consists of flat camera mount; centering device; alignment target; 8-inch supplementary lens; lens standard; hinged camera bracket; standard flat, metal base; for zooms, wipes, rolls, and all special effect; 2 lights permanently mounted to unit. Price, $14.95 plus tax; MODEL ML, same as above but without lights, $8.95 plus tax.

MFR., Photo Materials Co.

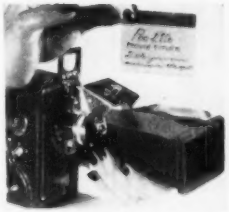
SUPERIOR



Universal Cine Titler. For 8 and 16-mm cameras; all-metal construction; can be used vertically or horizontally; 4x5 field; supplementary lens; instruction booklet on titling. Price, $5.95 including tax. Accessories include light unit consisting of 2 reflectors for No. 1 floodlamps, arm, and 6-ft. cord, $3.75.

DIST., Superior Bulk Film Co.

ZUSSER



Poc-Ette Optical Movie Titler. For 8 and 16-mm cameras; plastic and metal construction; supplementary lens with metal guard; used directly over camera lens; enables user to make on-the-spot titles or editing notations; equipped with ground-glass-type slates on which legends are made. Price, $3 including tax.

DIST., Zusser Mfg. Co.

Positive Agitation
HYDROJET Print Washer

$3.95 Tax Included

At your Dealer

The popular, convenient print washer that elevates the water leaving the tray.

The powerful jet-pump action washes prints hypo free in shorter time.

HYDROJET CORP. TRENTON MICHIGAN

GOLD XX AND S-35
VON-L
DEVELOPERS FOR FILM AND PAPER

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GOLD-XX—UNEQUALLED FOR STROBO—DAYLIGHT—MAZDA—VERY FINE GRAIN.
"S-35"—Especially for 35mm film. Practically Grainless. Makes tremendous enlargements possible.
SPEED—Increase Manufacturers' Rated Film Speeds 10 Times in Daylight and 5 Times in Photoflood. Use Super-XX at 1600, Plenach at 500, etc.
QUALITY—FINE GRAIN—SHARP OUTLINE—SHADOW AND HIGHLIGHT DETAIL—LONG LIFE.
ECONOMY—VON-L develops more than 10,000 square inches of film per gallon without replenisher. Keeps INDEFINITELY.
VON-L DEVELOPERS—THE WORLD'S FINEST
Free literature. Ask your dealer or order direct.
MON-BLANC CHEMICAL CO. Fort Wayne 3, Ind. or Spearman, Texas

AMATEUR FILM REFERENCE CHART

This convenient film chart has been prepared to assist the camera owner in quickly finding information relative to certain films which he may use. It is not intended as a comparison of the products of one manufacturer with those of another. A careful reading of the Notes on Films (see page 123) is essential to a full understanding of this information. Film speeds are given only in ASA exposure index numbers and Weston numbers, the rating systems used with exposure meters now being manufactured in the United States. To convert to other systems, see the chart on page 176.

FILM	TYPE	ASA EXPOSURE INDEX (h)		WESTON SPEEDS** (Weston's Figures)		SPECIAL CHARACTERISTICS, USES, ETC.	FILTER FACTORS: Light Yellow K-1		Medium Yellow K-2		Orange G		Red A		Light Green X-1		Dark Green X-2	
		DAY	TUNG.	DAY	TUNG.		D.	T.	D.	T.	D.	T.	D.	T.	D.	T.	D.	T.
ANKEN																		
ROLL FILM																		
ANKEN	ORTHO			50	32	Good Resolution; for General Amateur Use	2		2									
ANSCO																		
35 mm SPOOLS																		
(a) ULTRA-SPEED PANCHROMATIC	PAN	100	64	100	64	Extremely Fast; for Unfavorable Light	1.5	1.5	2	1.5	3	2	11	6	4	3	6	4
(a) SUPREME	PAN	50	32	50	32	Very Fast; Fine Grain; Fully Color Sens	1.5	1.5	2	1.5	3	2	11	6	4	3	6	4
(a) ANSCO COLOR DAYLIGHT	COLOR	12	3§	10	2(h)§	Positive Color Trans.; Can be Processed by User;												
(a) ANSCO COLOR TUNGSTEN	COLOR	12§	12	10(h)§	10	Screenless, Practically Grainless												
ROLL FILM & FILMPACKS																		
SUPERPAN PRESS	PAN	125	80	100	64	Extremely Fast; Press; Adverse Lighting	1.5	1.5	2	1.5	3	2	11	6	4	3	6	4
SUPREME	PAN	50	32	50	32	Medium Speed; Fine Grain; General Work	1.5	1.5	2	1.5	3	2	11	6	4	3	6	4
(d) PLENACHROME	ORTHO	50	25	50	32	General Outdoor Work; Wide Exposure Lat.	2	1.5	3	2	6	3			4	3	6	4
(d) ANSCO COLOR DAYLIGHT	COLOR	12		10		Positive Color Trans.; Can be Processed by User;												
(d) ANSCO COLOR TUNGSTEN	COLOR		12		10	Screenless; Practically Grainless; 120 & 620 Only												
SHEET FILM																		
TRIPLE S PAN	PAN	200	160	200	125	Extreme Speed; for Press, Portraits, Etc.	1.5	1.5	2	1.5	3	2	11	6	4	3	6	4
SUPERPAN PRESS	PAN	125	80	100	64	High Speed; for Press, Indoors, Action	1.5	1.5	2	1.5	3	2	11	6	4	3	6	4
ISOPAN	PAN	50	32	50	32	Medium Speed; Fine Grain; Good Contrast	1.5	1.5	2	1.5	3	2	11	6	4	3	6	4
SUPERPAN PORTRAIT	PAN	50	32	50	32	Medium Speed; Fully Color Sens.; Mod. Grain	1.5	1.5	2	1.5	3	2	11	6	4	3	6	4
TRIPLE S ORTHO	ORTHO	125	64	100	64	High Speed; Wide Latitude; Portrait, Comm.	2	1.5	3	2	6	3			4	3	6	4
COMMERCIAL ORTHO	ORTHO	25	12	24	16	Fine Grain; for Copy, Commercial, General	2	1	3	2	6	3			4	3	6	4
ANSCO COLOR DAYLIGHT	COLOR	10		8		See Roll Film												
ANSCO COLOR TUNGSTEN	COLOR		10		8	See Roll Film												
COMMERCIAL	BL. SENS.	25	6	24	8	Mod. Speed; Non-Color Sens.; Copying												
PROCESS	BL. SENS.		6	12	4	High Contrast; Line Copy, Etc.												
DASSONVILLE																		
SHEET FILM																		
DASSONVILLE PANCHROMATIC	PAN			50(h)	32(h)	Medium Speed; Portraiture, Pictorial Work	2		2									
DOVER																		
35 mm CART. (a); ROLL, PACK, & SHEET FILM																		
DOVER	PAN	80	64	80(h)	64(h)	Medium Speed; Fine Grain; Wide Latitude	1.5		2		3		4		4			
DUFAYCOLOR																		
DISTS: Continental Photographic Laboratories; General Photographic Supply Co.																		
35 mm CART.; ROLL & SHEET FILM																		
DUFAYCOLOR	COLOR	12	10§	10(h)	8(h)§	Can be Processed by User; Also Available in 12 Double-Frame Exposures												
DU PONT																		
SHEET FILM							(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)	(g)
HIGH SPEED PAN—TYPE 428	PAN	160	125	125(h)	100(h)	All Purpose; Medium Grain; Extra Fast	1.2	1.2	1.5	1.5	2.5	2	6	4	4	3.5	1.8	1.5
ARROW PAN	PAN	100	64	100	64	High Speed; Press and Commercial	1.2	1.1	1.5	1.3	1.8	1.2	4.3	3	4	3		
X-F PAN	PAN	50	32	50	32	For General Use; Fully Color Sensitive	1.5	1.3	2	1.5	3	1.8	9	4.5	4	3		
PENTAGON	ORTHO	32	12	24	16	Highly Ortho; Portrait & Commercial	3	2.5	7	4	24	9			8	5		
ORTHO-7	ORTHO	64	32	100	64	High Speed; Portraiture, Press, Etc.	1.7	1.5	4	2	5	3			4.5	3		
X-F ORTHO	ORTHO	50	5	50	16	Extra Fast; Portraiture, Flash, News	1.7	1.5	4	2	5	3			4.5	3		
FINE GRAIN PAN	PAN	32	20	24	16	Medium Speed; Fine Grain; Wide Latitude	1.3	1.2	1.8	1.5	2.6	2.2	9.5	4.5	4.5	3		

EASTMAN																					
35 mm SPOOLS; BANTAM (828) ROLLS																					
(z)(a) KODAK SUPER-XX PANCHROMATIC	PAN	100	80	100	64	Type B Pan; for Indoor-Outdoor; High Speed	1 5	1 5	2	1 5	3	2	8	4	4	3					
(z)(a) KODAK PLUS-X PANCHROMATIC	PAN	50	40	100	64	Fine Grain; Gen'l Miniature Work; Type B	1 5	1 5	2	1 5	3	2	8	4	4	3					
(z)(a) KODAK PANATOMIC-X	PAN	25	20	50	32	Extreme Fine Grain; Moderate Speed	1 5	1 5	2	1 5	3	2	8	4	4	3					
KODAK DIRECT POSITIVE PAN	PAN	64	50	50	32	Fast; Low Graininess; for Reversal	1 5	1 5	2	1 5	3	2	8	4	4	3					
(z) KODACHROME DAYLIGHT TYPE	COLOR	10	4§	8	8§	Color Transparency; Screenless, Practically Grain-less; Processed by Mfr.; for Projection															
(z) KODACHROME TYPE A	COLOR	10§	16	8§	12																
(a) KODAK INFRARED	BL. & I. R.		8(b)		8(b)	Use with Red Filter; Unusual Effects															
(y)(a) KODAK MICRO-FILE DAYLIGHT TYPE	PAN		3(t)		2.5(t)	Copy Books, Newspapers, Letters, Etc.				1 5		2		6							
ROLL FILM & FILM PACKS																					
KODAK SUPER-XX PANCHROMATIC	PAN	100	80	100	64	High Speed; Type B; Poor Light and Indoors	1 5	1 5	2	1 5	3	2	8	4	4	3					
KODAK PLUS-X PANCHROMATIC	PAN	50	40	50	32	Fine Grain; Wide Latitude; General Use	1 5	1 5	2	1 5	3	2	8	4	4	3					
(d) KODAK VERICHROME	ORTHO	50	25	50	32	High Speed Ortho; General Outdoor Use	2	1 5	2 5	2	5	3									
(d) KODACOLOR DAYLIGHT TYPE	COLOR	25		20		For Color Snapshots; for Color Prints															
(d) KODACOLOR TYPE A	COLOR	12§	20			For Color Snapshots; for Color Prints															
(d) KODAK EKTACHROME DAYLIGHT	COLOR	8		6		120 & 620 only; User can Process Transp.															
(d) KODAK INFRARED	BL. & I. R.		8(b)		8(b)	Use with Red Filter; Unusual Effects, Etc.															
SHEET FILM																					
KODAK SUPER PANCHRO-PRESS SPORTS TYPE	PAN	250	200	200	125	Extreme Speed; Fast Action with Poor Light	1 5	1 5	2	1 5	3	2	8	4	4	3					
KODAK TRI-X PANCHROMATIC	PAN	200	160	200	125	Extreme Speed; Type C; Mod. Contrast, Grain	1 5	1 5	2	1 5	2 5	2	6	3	5	4	6	5			
KODAK SUPER PANCHRO-PRESS TYPE B	PAN	125	100	100	64	Very Fast; for Press, Commercial, Flash	1 5	1 5	2	1 5	3	2	8	4	4	3					
KODAK SUPER-XX PANCHROMATIC	PAN	100	80	100	64	High Speed; Type B; General Use; Color Sep.	1 5	1 5	2	1 5	3	2	8	4	4	3					
KODAK PORTRAIT PANCHROMATIC	PAN	50	32	50	32	Type B; Moderate Speed; Portrait & General	1 5	1 5	2	1 5	3	2	8	4	4	3					
KODAK PANATOMIC-X	PAN	32	25	24	16	Type B; Extreme Fine Grain; General Use	1 5	1 5	2	1 5	3	2	8	4	4	3					
KODAK ORTHO-X	ORTHO	125	64	100	64	Fast Ortho; Portrait, Commercial, Etc.	2	1 5	2 5	2	5	3									
KODAK SUPER ORTHO PRESS	ORTHO	100	50	100	32	Fast Ortho for Press; Commercial; Flash	2	1 5	2 5	2	5	3									
KODAK SUPER SPEED ORTHO PORTRAIT	ORTHO	50	25	50	16	Moderate Speed; Long Scale of Gradation	2	1 5	2 5	2	5	3									
KODAK COMMERCIAL ORTHO	ORTHO	32	10	24	8	Med. Speed; Fine Grain; Commercial; Copy	2 5	2	8	4	16	8									
KODAK EKTACHROME DAYLIGHT TYPE	COLOR	8		6		Positive Color Transparencies; Can be Processed by															
KODAK EKTACHROME TYPE B	COLOR	6(p)	10	5(p)	8	User with Processing Kit															
KODACHROME PROFESS. DAYLIGHT	COLOR	8		6		Positive Color Transparencies; Processed by Mfr.;															
KODACHROME PROFESSIONAL TYPE B	COLOR	6(p)	10	4	6	Screenless															
KODAK INFRARED	BL. & I. R.				8(b)	See Roll; Haze Penetration, Scientific															
KODAK COMMERCIAL	BL. SENS.	25	6	24	8	Medium Speed; Fine Grain; Copy; Commercial	4	3	12	10											
KODAK COMMERCIAL MATTE	BL. SENS.	25	6	24	8	As above, with Matte Emulsion and Back	4	3	12	10											
KODAK CONTRAST PROCESS ORTHO	ORTHO	20	12		8	High Contrast; Copying Line, Printed Matter		1 5		2		4									
KODAK CONTRAST PROCESS PAN	PAN	20	16		8	High Contrast; Copying Colored Originals				1 5		2 5		5							
GEVAERT																					
35 mm SPOOLS																					
(a) PANCHROMOSA A.H.	PAN	100	64	50	32	For General Amateur Use; Wide Latitude	1 5		1 5		2		6								
MICROGRAN A.H.	PAN	24	16	24	16	Fine Grain; for Extreme Enlargements	1 5		2(h)												
ROLL FILM																					
PANCHROMOSA A.H.	PAN	100	64	50	32	Fast Pan; for General Use	1 5		1 5		2		6								
SUPERCHROME	ORTHO	50	25	50	32	For General Amateur Use and Outdoors															
GEVAPAN A.H.	PAN	100	64			High Speed Pan															
SHEET FILM																					
PANCHROMOSA A.H.	PAN	100	64	50	32	Fast Pan; General & Studio Use	1 5		1 5		2		6								
GEVAPAN A.H.	PAN	100	64			High Speed for Studio Use															
SUPERCHROME	ORTHO	50	25			Medium Speed Ortho															
NORMAL A.H.	BL. SENS.	12	4			Fine Grain; for Copying & Commercial															
KIN-O-LUX																					
35 mm SPOOLS																					
(z) SUPERIOR No. 2	PAN	100	64	50	32	Medium Grain; Wide Latitude; General Use	1 6		2		2 5		5								
(z) SUPERIOR No. 3	PAN	50	32	100	64	Fine Grain; Good for Low Key Lighting	1 6		2		2 5		3 2								
SEARS, ROEBUCK																					
ROLL FILM																					
TOWER	ORTHO	64	32	50(h)	24(h)	General Outdoor Use; Wide Exposure Lat.															
WEIMET																					
35 mm CARTRIDGES																					
GREEN SEAL PANCHROMATIC	PAN	64	40	50(h)	32(h)	Fine Grain; Medium Contrast; General Use	1 5		2		3		8		3		5				
ROLL FILM																					
GREEN SEAL PANCHROMATIC	PAN	64	40	50(h)	32(h)	Same as above	1 5		2		3		8		3		5				
WEIMET COLOR	COLOR	40	16§	32(h)	12§	Processed by Mfr.; Correction Filter Suppl.															
SHEET FILM																					
GREEN SEAL PANCHROMATIC	PAN	64(h)	40(h)	50(h)	32(h)	Fine Grain; Medium Contrast; General Use	1 5		2		3		8		3		5				

NOTES: ASA exposure indices are determined in accordance with a standard procedure set up by the American Standards Association, and are used in calibrating most exposure meters now being made. Where official Weston ratings are given they are supplied by Weston Electrical Instrument Corp.

** Group numbers, representing the mean value of a group of 3 consecutive emulsion speeds.
§ With filter recommended by manufacturer.
(a) Also obtainable in bulk.
(b) With Wratten A (No. 25) filter.
(d) Obtainable in rolls only.
(g) Exact filter factors for sheet films determined for each batch and enclosed with film.
(h) Figures furnished by manufacturer.
(m) For "B" filter.
(n) For C5 filter.
(p) With Wratten 85B filter.
(t) Read meter on white surface placed over copy work.
(x) Without filter.
(y) 35 mm only.
(z) Also available in 20-exposure cartridges.

AMATEUR MOVIE FILM CHART

Film Width in mm	FILM NAME	TYPE (Blue Sens., Ortho-chromatic, Pancho-matic, Full Color)	A.S.A. EXPOSURE INDEX Day	A.S.A. EXPOSURE INDEX Tung.	WESTON SPEEDS** (Weston's Figures) Day	WESTON SPEEDS** (Weston's Figures) Tung.	LENGTHS in FEET AND PACKING (D.L.=Daylight Loading; Mag.=Magazines; B=Bulk)	SPECIAL CHARACTERISTICS, FEATURES, AND USES	Processing	POPULAR FILTER FACTORS (Daylight Only)		
	ANSCO									K-2	G	A
16	Triple S Pan Reversible (s)	Pan	100	80	100	64	50, 100, 200, 400 ft. D.L. Rolls	Fast; Wide Latitude; Normal Grain & Contrast	Free	1.5	2	4
16	Hypan Reversible (s)	Pan	40	32	32	24	50, 100, 200, 400 ft. D.L. Rolls	Fine Grain; for General Use; Good Latitude	Free	1.5	2	4
16	Supreme Negative (s)	Pan	50	32	50	32	100, 200 ft. D.L. Rolls	For Negative Film; Fine Grain; Wide Latitude	Extra	2	3	11
16	Ansco Color Daylight Type (s)	Color	10		8		50, 100, 200 ft. D.L. Rolls	Full Natural Color Film; Screenless; Will be Processed by the Manufacturer	Free			
16	Ansco Color Tungsten Type (s)	Color		12		12	50, 100, 200 ft. D.L. Rolls		Free			
Dbl. 8	Triple S Pan Reversible	Pan	100	80	100	64	25 ft. D.L. Rolls	Very Fast; Wide Latitude; Normal Grain	Free	1.5	2	4
Dbl. 8	Hypan Reversible	Pan	40	32	32	24	25 ft. D.L. Rolls	Fine Grain; Good Latitude; for General Use	Free	1.5	2	4
	DASSONVILLE									K-1	K-2	K-3
16	Dassonville Type 40 (Rev.)	Pan	50		(h) 40		25, 100 ft. D.L.	High Speed; Medium Grain; Good Latitude	Free	1.5	2	3
16	Dassonville Type 80 (Rev.)	Pan	100		80		25, 100 ft. D.L.	Extreme Speed for Adverse Lighting	Free	1.5	2	3
Dbl. 8	Dassonville Type 40 (Rev.)	Pan	50		40		25, 100 ft. D.L.	High Speed; Medium Grain; Good Latitude	Free	1.5	2	3
Dbl. 8	Dassonville Type 80 (Rev.)	Pan	100		80		25, 100 ft. D.L.	Extreme Speed for Adverse Lighting	Free	1.5	2	3
	DU PONT											
16	301 Pan (Neg.)	Pan	50	32	(h) 50	(h) 32	100 ft. D.L.; 400, 800, 1000, 1200 ft. Bulk	Fine Grain; Wide Latitude; Good Rendition of Flesh Tones	Extra			
16	314 Pan (Neg. or Rev.)	Pan	32	20	32	20	Same as above	Fine Grain; Wide Latitude; Medium Speed	Extra			
16	324 Pan (Rev.)	Pan	40	25	32	20	Same as above	Designed for Television; Medium Speed	Extra			
16	330 Rapid Reversal Pan	Pan	64	40	50	32	Same as above	Esp. for Rapid Reversal; Fine Grain; Wide Lat.; Television and Motion Picture Production	Extra			
	DUFAYCOLOR **DIST.: General Photographic Supply Co.**											
16	Dufay Color	Color	12	10	(h) 10	(h) 8	50, 100 ft. D.L. Rolls	Can be Processed by User				
	EASTMAN									K-2	CK-3	A
16	Cine-Kodak Super-XX Panchromatic (Rev.)	Pan	100	80	100	80	50, 100, 200 D.L. Rolls; 50 ft. Mag., for others see (e)	High Speed Type B Pan; Indoor, Slow Motion	Free	2	2	8
16	Cine-Kodak Super-X Panchromatic (Rev.)	Pan	40	32	32	24	50, 100, 200 ft. D.L. Rolls; 50 ft. Mag., for others see (e)	Fine Grain; Good Contrast; Type B Pan	Free	2	2	8
16	Cine-Kodak Kodachrome, Daylight Type	Color	10	4(a)	8	3(a)	50, 100, 200 ft. D.L. Rolls; 50 ft. Mag., for others see (e)	Full Natural Color Film; Subtractive Dyed Image Type; Screenless, Practically Grainless; Tungsten Type Balanced for Photoflood Illumination	Free			
16	Cine-Kodak Kodachrome, Type A (Photoflood)	Color	10(a)	16	8(a)	12	50, 100, 200 ft. D.L. Rolls; 50 ft. Mag., for others see (e)		Free			
Dbl. 8	Cine-Kodak Super-X Panchromatic (Rev.)	Pan	40	32	32	24	25 ft. D.L. Rolls; 25 ft. Mag.	Fine Grain; Good Contrast; Type B Pan	Free	2	2	8
Dbl. 8	Cine-Kodak Eight Panchromatic (Rev.)	Pan	10	8	8	6	25 ft. D.L. Rolls only	Outdoor Use Under Average Cond.; Type C Pan	Free	2	2	6
Dbl. 8	Cine-Kodak Kodachrome Daylight Type	Color	10	4(a)	8	3(a)	25 ft. D.L. Rolls; 25 ft. Mag.	Full Natural Color Film; Subtractive Dyed Image Type; Screenless, Practically Grainless; Tungsten Type Color Balanced for Photoflood Illumination	Free			
Dbl. 8	Cine-Kodak Kodachrome Type A (Photoflood)	Color	10(a)	16	8(a)	12	25 ft. D.L. Rolls; 25 ft. Mag.		Free			
	ESO-S											
16	Supreme XXX (Rev.)	Pan	125	100	(h) 100	(h) 80	100 ft. D.L. Rolls; 50 ft. Mag., also 100 ft. Bulk	Very High Speed; for Indoor Use	Free*			
16	Supreme X (Rev.)	Ortho	20	5	16	4	50 ft. Mag., also 100 ft. Bulk	For Outdoor Use; Fine Grain	Free*			
16	DeLuxe Sepia (Rev.)	Ortho	20	5	16	4	100 ft. D.L. Rolls; 50 ft. Mag., also 100 ft. Bulk	Special Sepia Processing; Suitable for Editing into Color Reels	Free*			
	Supreme XXX (Rev.)	Pan	125	100	100	80	25 ft. D.L. Rolls; 100 ft. Bulk	Very High Speed; for Indoor Use	Free*			
Sgl. 8	Supreme X (Rev.)	Ortho	20	5	16	4	25 ft. D.L. Rolls; 100 ft. Bulk	For Outdoor Use; Fine Grain	Free*			
Dbl. 8	DeLuxe Sepia (Rev.)	Ortho	20	5	16	4	25 ft. D.L. Rolls; 100 ft. Bulk	Special Sepia Processing; Suitable for Editing into Color Reels	Free*			
	ESO-S Color	Color	10	2.5	8	2	25 ft. D.L. Rolls	Full Color Film	Free*			
	GEVAERT									K-1	K-2	K-3
16	Ultra Pan Reversal	Pan	100	64	50	32	100 ft. D.L. Rolls	Full Color Sensitivity; Indoors, Outdoors	Free	1.5	2	2
16	Super Pan Reversal	Pan	25	16	20	10	100 ft. D.L. Rolls	Full Color Sensitivity; General Use	Free	2	2.5	3
16	Micro Pan Reversal	Pan	12	8	10		100 ft. D.L. Rolls	Fine Grain; for Quality Projection	Free	2	2.5	3
Dbl. 8	Super Pan Reversal	Pan	25	16	20	10	25 ft. D.L. Rolls	Full Color Sensitivity; General Use	Free	2	2.5	3
Dbl. 8	Micro Pan Reversal	Pan	12	8	10		25 ft. D.L. Rolls	Fine Grain; for Quality Projection	Free	2	2.5	3

	IDEAL											
					(h)	(h)						
16	Ideal Panchromatic (Rev.)		Pan	64	40	50	32	100 ft. D.L. Rolls; 50 ft. Mag., also 100, 400 ft. Bulk	Free Titles Except with Bulk	Free*		
16	Ideal Colorchrome		Color	12	16	10	12	100 ft. D.L. Rolls; 50 ft. Mag.	Free Titles	Free		
Dbl. 8	Ideal Panchromatic (Rev.)		Pan	64	40	50	32	25 ft. D.L. Rolls; 25 ft. Mag.	Free Titles Except with Bulk	Free*		
Dbl. 8	Ideal Colorchrome		Color	12	16	10	12	Same as above	Free Titles	Free		
	KIN-O-LUX											
					(h)	(h)					**K-2**	**G**	**A**
16	No. 1 Reversal	(s)	Bl. Sens.	16	(n)	12	(n)	50, 100, 200 ft. D.L. Rolls; 400 ft. Bulk	Recommended for Outdoor Use Only				
16	Kin-O-Lux T-V (Rev.)	(s)	Pan	64	50	50	40	50, 100, 200 ft. D.L. Rolls	Medium Speed; Designed for Television	Free	2	2.5	5
16	Gold Seal Reversal	(s)	Pan	(n) 125		(n)	100	50, 100, 200 ft. D.L. Rolls; 400 ft. Bulk	Use Under Poor Light or Tungsten				
Dbl. 8	No. 2 Reversal		Bl. Sens.	16	(n)	12	(n)	25 ft. D.L. Rolls	Recommended for Outdoor Use Only				
Dbl. 8	Kin-O-Lux T-V (Rev.)		Pan	64	50	50	40	25 ft. D.L. Rolls	Medium Speed; Designed for Television	Free	2	2.5	5
Dbl. 8	Gold Seal Reversal		Pan	(n) 125		(n)	100	25 ft. D.L. Rolls	Use Under Poor Light or Tungsten				
	SOLAR											
					(h)	(h)						
16	Solar Type 12 (Rev.)		Ortho	16		12		50, 100 ft. D.L. Rolls	Fine Grain; Wide Latitude; Outdoor Use	Free		
16	Solar Type 24 (Rev.)		Pan	32	20	24	16	50, 100 ft. D.L. Rolls	General Outdoor and Indoor Use	Free		
16	Solar Type 100 (Rev.)		Pan	125	80	100	64	50, 100 ft. D.L. Rolls	Super-Speed Pan for Indoor Use	Free		
Dbl. 8	Solar Type 12 (Rev.)		Ortho	16		12		30 ft. D.L. Rolls	Fine Grain; Wide Latitude; Outdoor Use	Free		
Dbl. 8	Solar Type 24 (Rev.)		Pan	32	20	24	16	30 ft. D.L. Rolls	General Outdoor and Indoor Use	Free		
Dbl. 8	Solar Type 100 (Rev.)		Pan	125	80	100	64	30 ft. D.L. Rolls	Super-Speed Pan for Indoor Use	Free		
	SUPERIOR BULK FILM											
					(h)	(h)					**K-2**	**G**	**A**
16	Superpanex No. 24 (Rev.)	(s)	Pan	32		24	16	50, 100 ft. D.L. Rolls; 50 ft. Mag., 100, 400 ft. B	General Use Outdoors, Indoors; Fine Grain	Free*	2	3	3
16	Superpanex No. 64 (Rev.)	(s)	Pan	80		64	40	Same as above	Extreme Speed; Good Contrast; Wide Lat.	Free*	2	3	3
16	Superior Regular (Rev.)	(s)	Ortho	10		8		50, 100 ft. D.L.; 100, 400 ft. B	Fine Grain; High Contrast	Free*			
16	Superior Plus (Rev.)	(s)	Ortho	16		12	3	Same as above; also 50 ft. Mag.	Fine Grain; Good Contrast	Free*			
	Superpanex No. 24 (Rev.)		Pan	32		24	16	25 ft. D.L. Rolls	General Use Outdoors, Indoors, Fine Grain	Free*	2	3	3
Sgl. &	Superpanex No. 64 (Rev.)		Pan	80		64	40	25 ft. D.L. Rolls	Extreme Speed; Good Contrast; Wide Lat.	Free*	2	3	3
Dbl. 8	Superior Regular (Rev.)		Ortho	10				25 ft. D.L. Rolls	Fine Grain; High Contrast	Free*			
	Superior Plus (Rev.)		Ortho	16		12	3	25 ft. D.L. Rolls	Fine Grain; Good Contrast	Free*			
	WEIMET											
					(h)	(h)					**K-2**	**G**	**A**
16	Weimet Green Seal (Rev.)		Pan	40	32	32	24	100 ft. D.L. Rolls	Fine Grain; Brilliant Contrast; Good Lat.		2	3	8
Dbl. 8	Weimet Green Seal (Rev.)		Pan	40	32	32	24	25 ft. D.L. Rolls	Same as above		2	3	8

NOTES:

ASA exposure indices are determined according to a standardized procedure set up by the American Standards Association. Where official Weston ratings are given they are the latest supplied by Weston Electrical Instrument Corp. except where otherwise noted. For additional information see pages 123 and 176.

* Free processing on D.L. and Magazines only.
** Group numbers, representing the mean value of a group of 3 consecutive emulsion speeds.
(a) With filter recommended by the manufacturer.
(e) 50 ft. Packettes for Simplex Pockette and Filmo 121.

(h) From figures furnished by the manufacturer or distributor.
(n) Not recommended for use with this illumination.
(s) Also available single perforated for sound.
(t) Read meter on white surface placed over copy work.

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AMERLINE LM-112

Extinction type for still and movie cameras; for daylight and tungsten light; measures reflected light; reads by conversion from f/1.4 to f/32, progressing by full stops; calibrated in Weston system from emulsion speed of 1.5 to 200; exposure times from 30 seconds to 1/1000 sec.. Price, $1.95.
MFR., Amerline, Inc.

DA-BRITE 312

Extinction type for still and movie cameras; for daylight and tungsten light; measures reflected light; reads by conversion from f1.4 to f/32, progressing by full stops; calibrated in Weston system from emulsion speed of 1.5 to 200; exposure times from 30 seconds to 1/1000 sec. Price, complete with neck cord and case, $1.50.
DIST., Mostow Co.

DE JUR LIFETIME DUAL PROFESSIONAL

Photoelectric type for still and motion pictures; by daylight and artificial light; measures reflected and incident light; reads direct from f/1 to f/45; ASA Exposure Indexes from .8 to 800; reads in 1/3 stops; exposure times from 120 seconds to 1/800 sec., automatic dial shift for incident or reflected light; red dot at 1/32 sec. Price, $24.50 including tax; eveready leather case, $2.

DE JUR 6A

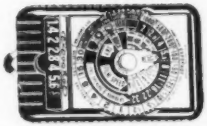
Photoelectric type for still and movie cameras, by daylight and artificial light; measures reflected light; reads direct by half stops from f/1 to f/44; ASA Exposure Indexes from .8 to 800; exposure times from 60 seconds to 1/1000 sec.; automatic scale shift; one hand operation. Price, $12.15, eveready case, $1.29.
MFR., DeJur Amsco Corporation.

ELECTROPHOT MODEL 14-A

Photoelectric type for still and movie cameras; for daylight and artificial light; calibrated in Weston system; reads direct or by conversion from f/1.4 to f/32 progressing in half

stops; calibrated from emulsion speeds of 3 to 400; exposure times from 2 minutes to 1/1000 sec. Price, $15.50; eveready case, $1.50.
MFR., Adair & Rhamstine.

EXPOPHOT



Extinction type for still pictures; for daylight and tungsten light; measures reflected light; calibrated in ASA Exposure Index from 1.2 to 1000; from f/2 to f/32; exposure times from 30 seconds to 1/1000 sec.; reads direct; exposures progress by full stops. Price, $1.95 including tax.
DIST., Willoughbys, Inc.

GENERAL ELECTRIC MODEL DW-68

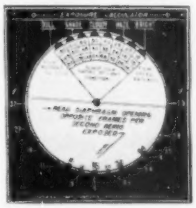
Photoelectric type for still and movie cameras, by daylight and artificial light; measures reflected and incident light; removable hood for incident light readings by conversion from f/1 to f/45 progressing by 1/3 stops; ASA Exposure Indexes from 8 to 800; exposure times from 120 seconds to 1/800 sec.; reads directly in foot candles. Price, $19.95 including tax; case available for $1.65.

GENERAL ELECTRIC MODEL PR-1

Photoelectric type for still and movie cameras; by daylight and artificial light; measures reflected and incident light; reads direct by 1/3 stops from f/1 to f/128; ASA Exposure Indexes from .2 to 1600; exposure times from 120 seconds to 1/3000 sec.; trident analyser; automatically shifts range from High to Low; for movies and stills on one dial. Price, including tax, $32.50; case available for $2.25.
MFR., General Electric Co.

GROVER EXPOSURE CALCULATOR

Slide-rule type made of polished metal that attaches to either movie or still cameras; two separate models; one for still, and one for movie cameras; still type for daylight; calibrated in ASA, Weston, and G-E



ratings; reads from f/1.9 to f/32; exposure times from 1/5 sec. to 1/400 sec.; installs on any 2-inch square surface. Price, $1.25 including tax.
MFR., Grover Photo Products.

KODAGUIDES

Film and Filter Kodaguide. Pocket-sized, four-page chart listing exposure indexes of ASA, Weston, and G-E; color sensitivity of Kodak black-and-white roll films, film packs, miniature and sheet films; sheet film code notches; color transmission spectrograms of six filters; their exposure factors, and color rendering; for still and movie cameras, by daylight and artificial light. Price, 15 cents.

Movie Kodaguide. Pocket-sized, four-page chart and slide rule with two dials; for movies by daylight or artificial light; reads direct for Cine-Kodak films, black-and-white and color. Price, 25 cents.

Home Lighting Kodaguide. Pocket-sized "slide-rule" type card with dial; for still and movie cameras by artificial light; for exposure of Kodak Super-XX film based on total wattage of home service lamps and average distance of lamps from subject. Price, 15 cents.

Snapshot Kodaguide. Pocket-sized four-page card with two dials; for still pictures by daylight and artificial light; reads direct for Kodak

Verichrome, Plus-X, Super-XX, Panatomic-X, Kodachrome Daylight and Type A, and Kodacolor. Price, 25 cents.

Effective Aperture Kodaguide. Pocket-size card with dial; for still pictures and movies, by daylight, artificial light, and flash exposures; modify exposures of subjects closer than eight times the focal length of the camera lens. Applies to lenses from 1 to 30 inches in focal length. Price, 15 cents.

Flash Kodaguide. Pocket-sized four page card with dial; for still pictures by flash exposures; uses guide numbers; lists guide numbers for all Kodak films, and reads directly for popular film and flashbulb combinations. Price, 25 cents.

Outdoor Filter Kodaguide. Pocket-size chart with dial for still pictures; indicates the proper filter to use for a number of outdoor subjects, and calculates exposure corrected by filter factor. Price, 15 cents.

Contrast Viewing Kodaguide. Pocket-guide chart with four gelatin viewing filters; for still and movie cameras, by daylight and artificial light; helps select the Kodak Wratten Filter that will produce the desired color contrast. Gives filter factors. Price, 25 cents.
MFR., Eastman Kodak Co.

LEUDI 3

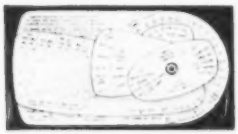
Extinction type for still and movie camera; for daylight and artificial

light; measures reflected and incident light; reads direct by full stops from f/1 to f/32; ASA Exposure Indexes from 8 to 500; exposure times from 10 minutes to 1/1000 sec. Price, including case and tax, $2.15.
DIST., Mimosa American Corp.

LIGHT METER 1501-A

Photoelectric type for still pictures; for flash exposures; measures incident light; phototube, covered by light attenuator, feeds vacuum-tube voltmeter which indicates total light emitted by flashtube; calibration in foot-candle seconds; reads direct, from f/2 to f/64; exposures progress by full stops; can also be used with 1501-Pl Probe unit to measure light at camera groundglass. Price, $152 plus tax, and including walnut case.
DIST., General Radio Co.

MARTIN COMPUTER



Circular slide-rule type; for still and motion pictures by daylight; two scales on each of four white Vinylite dials turning on one pivot; all normal shutter speeds, lens openings, ASA Exposure Index; brightness of subject, shade, incident, or reflected light; condition of sun for any time of day by months according to geographic latitude; for color and black-and-white film. Price, $1.50.
MFR., Paul S. Martin.

MORGAN FLASHGUIDE

Pocket-sized chart for determination of flash speeds on given flashbulbs and shutters; shutter speed is placed opposite the type of reflector being used; distance of flashbulb to the subject determines the diaphragm opening. Price, 25 cents.
MFR., Morgan Camera Shop.

NORWOOD DIRECTOR

Photoelectric type for still and movie cameras; for daylight, artificial light, and flash exposures; measures incident light, and reflected light with accessory Photogrid; photoelectric cell mounted on swivel head; calibrated in ASA; reads by conversion on calculator dial; from f/1.4 to f/45 progressing by 1/3 stops; calibrated from emulsion speed of .1 to 1000; exposure times from 120 seconds to 1/1200 sec.; leatherette-covered steel case. Price, $29.95, including Photodisk for copying and balancing lights in studio; Photogrid for emergency exposure determination and brightness range control.
DIST., Director Products Co.

PATROL

Photoelectric type for still and movie cameras; for daylight and artificial light; measures reflected light; construction, plastics and chrome; calibrated with ASA Exposure Indexes from 3 to 200; reads by conversion from f/1.4 to f/45 by 1/3 stops; exposure times from 8 sec. to 1/800 sec. superimposed computor dial; midget design, curved to fit wrist. Prices on request.
MFR., Warren-New York, Inc.

PHOTO COMPUTER

A pocket-sized aid to solve quickly exposure problems of still and movie pictures. The computer covers filter factors, film emulsion speeds, shutter openings, motor speeds and lens diaphragm openings; these are all variables dependent on one another. It is also provided with a lens calculator by which the depth of field for most standard lenses at various stops and focal distances may be found.
MFR., Bardwell & McAlister, Inc.

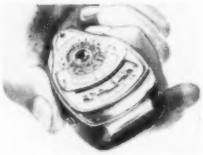
PHOTOVOLT EXPOSURE PHOTOMETER MODEL 200-A

Photoelectric type for still pictures by daylight and artificial light; measures reflected and incident light; meter contained in wooden housing; photocell connected by flexible cable; reads by conversion from f/1 to f/45 by 1/3 stops; calibrated by ASA and Weston systems; four measuring ranges. Price, with case, $47.50, including tax. Extension pieces available for 60 degree and 20 degree light acceptance angle.
MFR., Photovolt Corp.

POLAROID G-E

Photoelectric type for still pictures; for daylight and artificial light; measures reflected light; midget meter with scale markings matched to Polaroid Land camera exposure numbers; 5 separate scales for different film speeds; direct reading for Polaroid camera; clips to camera for use. Price, $15.75 including tax; eveready case, $1.50.
DIST., Polaroid Corp.

PULLIN



Photoelectric type meter for still and motion pictures; for daylight and artificial light; calibrated from emulsion speed of 6 to 200; from f/1.4 to f/45, exposure times from 2 hours to 1/1000 sec.; exposures progress by full stops. Price, $14.95 including tax.
DIST., General Photographic Supply Co.

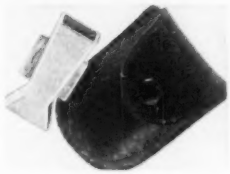
RED DOT

Electric-Comparison type for still and motion pictures; for daylight and artificial light; measures reflected light; plastic and metal construction; calibrated in ASA Exposure Index from 6 to 400; from f/1.4 to f/45; exposure times from 2 seconds to 1/800 sec.; exposures progress by half stops; calibrated lamp illuminates one half of comparison screen; other half illuminated by light from scene; the two halves are matched by movement of rheostat arm to indicate light value. Price, $4.50 including tax.
MFR., Lloyd Mfg. Co.

SALFORD S.E.I.

Photoelectric and extinction type for still pictures, by daylight and artificial light; measures reflected light; cylindrical construction with eyepiece; all metal; uses one flashlight cell and photocell; calibrated in ASA Exposure Indexes; reads direct; exposure times from 2 hours, 47 minutes to 1/500,000 sec. can be used as a densitometer; has a relative density scale for the direct measurement of transmission and reflection densities. Price upon request.
DIST., Hollywood Photographic Mfrs.

SAYMON-BROWN

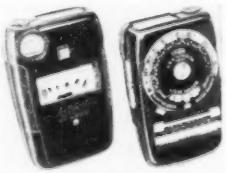


Extinction type meter for still pictures or movies; by daylight or artificial light; tubular construction; calibrated in Weston system; reads direct; with apertures from f/1.5 to f/16 by full stops; shutter speeds from 1 second to 1/1000 sec.; fits camera shoe which is available as accessory for 25 cents. Price, including leather case, $2.05.
DIST., Burleigh Brooks Co.

SKAN SM-1

Photoelectric type for still and movie cameras, by daylight and artificial light; measures reflected light; accessible zero adjustment; patented method of calibration from f/1.4 to f/32 progress by half stops; ASA Exposure Indexes from 4 to 800; exposure times from 30 seconds to 1/1000 sec. Price, including case and tax, $14.95.

SKAN SM-2



Photoelectric type for still and movie cameras, by daylight and artificial light; measures reflected light; inside pivot construction; twin scales, with same restricted light acceptance angle for both high and low light sensitivity; accessible zero adjustment; ASA Exposure Indexes from .3 to 800; reads from f/1 to f/45 progressing by 1/3 stops; exposure times from 120 seconds to 1/1200 sec.; has camera-type viewfinder; 3-element computer. Price, including case and tax, $24.95.
MFR., G-M Laboratories, Inc.

SUPERB COLOR CORRECTION SCALE

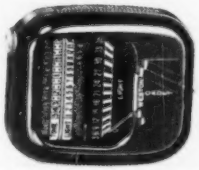
Pocket-sized chart made of plastics; has two scaled tables, for color correction filters and for color flash exposure; determines aperture opening with any flashbulb, film, at various shutter speeds and distances;

determines correct filter with different color films and with all light sources; a comparison of different manufactured filter and color films. Price, $1.25.
DIST., Willoughby's.

TOWER

Photoelectric type for still and movie pictures, by daylight and artificial light; measures reflected light; reads direct by half stops from f/1.9 to f/45; ASA calibration from 2 to 200; exposure times from 4 seconds to 1/1000 sec. Price, $14.95; case available for $1.40.
DIST., Sears, Roebuck and Co.

WESTON CADET



Photoelectric type for still and motion pictures; for daylight and artificial light; measures both incident and reflected light; calibrated in Weston system from 4 to 125 emulsion speed; reads by conversion; from f/2.8 to f/16; exposure times from 5 seconds to 1/800 sec.; exposures progress by 1/3 stops; can be used with Polaroid Land camera; equipped with zero corrector. Price, $21.50 including tax.

WESTON MASTER II UNIVERSAL 735

Photoelectric type for still and movie work, by daylight and artificial light; measures reflected light; double range for low and high light intensities; reads direct in 1/3 stops from f/1.5 to f/32; calibrated in Weston system from 3 to 800; exposure times from 100 seconds to 1/1200 sec.; very sensitive to low light and has a narrow acceptance angle for outdoor work; calculator has color control and black-and-white control features. Price, $29.67; eveready case, $2.00.

WESTON MASTER II CINE 736

Photoelectric type for movie work, by daylight and artificial light; measures reflected light; double range for low and high light intensities; reads direct in half stops from f/1 to f/22; calibrated in Weston system from .1 to 800; exposure times from 6 frames per sec. to 96 frames per sec. Price, $29.67; eveready case, $2. The Weston Invercone Adapter for measuring incident light is available as an accessory for Weston Master models, $3.
MFR., Weston Electric Instr. Corp.

WIRGIN

Extinction type for still and motion pictures; for daylight and artificial light; measures reflected light; metal construction; folds open to operating position; emulsion speeds from 2 to 100; from f/2 to f/32; exposure times from 8 seconds to 1/250 sec.; exposures progress by full stops. Price, $2.15 including tax and case.
MFR., Camera Specialty Co., Inc.

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# 5	FLASH— 11.70	per case	of	120
#11	FLASH— 13.70	per case	of	120
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With f3.5 lens	$46.80
With f2.8 lens and No. 0 Rapax M-F shutter, (1 to 1/400 sec.)	$98.50

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Ciro

CONTACT PRINTERS

AIREQUIPT JUNIOR

Metal construction; takes negative sizes from 35 mm to 4x5; diffusion glass; automatic switch; felt covered hinged platen; automatic 3/16" margins; direct reading calibrations for margins to 1/4"; top and left margins set simultaneously; steel sliding masks. Price, $8.98 plus tax.
MFR., Airequipt Mfg. Co., Inc.

ARKAY ZEPHYR PRINTER

Metal construction; takes negative sizes up to 4x5; film guides for 35 mm printing; lock mechanism for time exposure; molded safelight lens diffuses light over large working area; slope-design body to prevent tilting under pressure. Price, $11.10 including tax.
MFR., Arkay Corp.

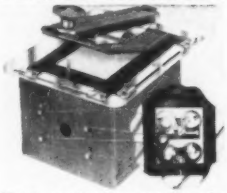
ATLAS JR.

Metal construction; takes negative sizes from 35 mm to 4x5; uses one 25-watt white light on 115 recommended line voltage; groundglass diffusion; adjustable border masks; double-hinged rubber-cushioned pressure plate. Price, with ruby bulb, $8.75.
MFR., Atlas Products Co.

BRUMBERGER 1057

Metal construction; flash opal glass diffusion; uses 1 white bulb; 110 recommended line voltage; automatic switch; adjustable border masks; double-hinged rubber cushioned pressure plate; easy access to bulbs; supplied with 7½-watt ruby bulb. Price, $24.48 including tax.
MFR., Brumberger Co., Inc.

COMPCO 360 ARGON



Metal construction; negative sizes from 35 mm to 4x6; equipped with 4 Argon lamps, each on individual switch for control of negative densities; automatic switch; adjustable masking bands; hinged platen; supplied with ruby bulb. Price, $15.75 including tax.

COMPCO MODEL 280

Metal construction; takes negative sizes from 35 mm to 4x6; uses one 15-watt inside-frosted white bulb; opal-type glass diffusion; adjustable border masks; double-hinged rubber cushioned pressure plate; built-in safelight window; amber indicator window in front of printer tells when white light is on; wide phosphor bronze pressure spring. Price, $6.95.
MFR., Compco Corp.

CURTIS TYPE M COLOR PRINTER

Combination wood and metal construction; takes negative sizes from 35 mm to 4x5; uses 1 white bulb; 75-watt G-E enlarging bulb recommended; groundglass diffusion; designed for making balanced color separation negatives from color film; Anti-Newton Mounting Plate; gray scale; instruction booklet; filters for Ektachrome, Kodachrome, Ansco Color film. Price, including white bulb, $35 including tax.
MFR., Curtis Laboratories, Inc.

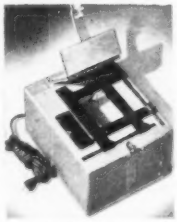
EASTMAN PRINTER NO. 8—MODEL 2

Wood construction; uses 4 white 25- or 40-watt bulbs; groundglass diffusion; positive action switch turns on the lights when the platen makes contact; adjustable border masks; double-hinged rubber-cushioned pressure plate; door in the front of the printer gives access to the lamps and to a diffusing groundglass on which vignettes may be placed. Price, with ruby bulb, $70.

KODAK HOME PRINTER MODEL A

Metal construction; takes negative sizes from 35 mm to 4x5½ and paper up to 5x7; used with 10-watt frosted lamp; adjustable for strip printing of 35 mm and larger roll film; 4 adjustable masking guides; 2 guides marked with scales for framing; paper-locating guides give ¼-inch or wider margins; one-piece platen with foam-rubber pad; automatic switch; equipped with 7½-watt ruby bulb. Price, $12.50 including tax.

KODAK ALL-METAL PRINTER—MODEL 3



Metal construction; takes negative sizes up to 4x5½; uses 1 white bulb; 25 watts; double-hinged rubber-cushioned pressure plate; adjustable border masks; illuminated masking scales; 1/16 inch scale margin guides; paper locating guide; negative locking device; special guides for 35 mm strip printing; ruby bulb included. Price, $22.50.
MFR., Eastman Kodak Co.

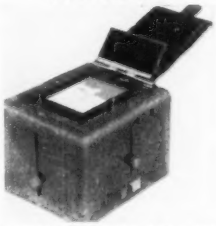
M35 PRINTER

Metal construction; takes negative sizes up to 5x7; uses four 40-watt white bulbs; recommended line voltage 105 to 125; flash opal glass diffusion; built-in adjustable border masks; rubber-cushioned pressure plate; built-in timer with switch on platen hasp. Price, with ruby bulb, $59.50 plus tax.
MFR. Industrial Timer Corp.

MORSE M-20 PRINTER

Metal construction; uses 39 Argon lamps and 4 white bulbs; 100 watts; 110 recommended line voltage; each lamp is individually controlled and group switches placed for dodging; pneumatic pressure plate; simplifies vignetting; fast printing with cool burning, highly actinic Argon glow lamps; inflated rubber platen gives 600 lb. pressure; groundglass diffuser; plate glass printing surface; will handle negatives sizes up to 8x10. Price, with white lights and ruby bulbs, $225.
MFR., The Morse Instrument Co.

PHOTOCRAT



All-metal construction; takes negative sizes from 35 mm to 4x5; uses 1 tubular white light; 25 watts on 120 recommended line voltage; diffusion by special processed glass; automatic switch for use as viewing or retouching box; built-in and concealed sliding masks for automatic 3/16 margin; 35 mm guides for strip printing; built-in safe light; felt-cushioned pressure plate. Price, $11.95 plus tax.
MFR., Airequipt Mfg. Co., Inc.

RADIANT 4x5

Metal construction; takes negative sizes from 35 mm to 4x5 with ruby bulb and one 40-watt white light on 110 recommended line voltage; groundglass diffusion; automatic switch line voltage; groundglass diffusion; automatic switch that controls white light; adjustable border masks; rubber-cushioned pressure plate; has door which can be opened to permit dodging; rubber feet; 6-foot cord and socket. Price on request.

RADIANT 5x7

Same construction and features as the above model; takes film sizes up to 5x7; uses two 60-watt white bulbs; has double-hinged rubber-cushioned pressure plate; equipped with ruby light, 6-foot cord and socket. Price on request.
MFR., Radiant Specialty Corp.

SUPERB METAL PRINTER

Metal construction; uses 2 clear white bulbs; 25 or 40-watt; 110 recommended line voltage; groundglass diffusion; automatic switch; built-in adjustable border masks; double-hinged felt cushioned pressure plate. Price, $15.15 including tax.
MFR., Willoughbys, Inc.

U. S. COLD LIGHT PRINTER

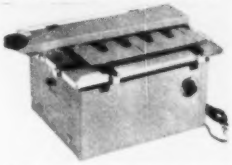
Metal construction; takes negative sizes from 35 mm to 5x7; uses 9 ultraviolet lamps; 22½ watts; 110 a-c recommended line voltage; flashed opal glass diffusion; adjustable border masks; double-hinged rubber-cushioned pressure plate; easel-type masks; automatic margin controls lining up of paper and negative; negative clamp; designed for table or sunk-bench use; mounting brackets provided. Price, $36 plus tax.
MFR., U. S. Photo Equipment Corp.

WILLO CHAMPION PRINTER

Metal construction; takes negative sizes from 35 mm to 5x7; uses two 25-watt white bulbs; 110 a-c, d-c recommended line voltage; groundglass diffusion; built-in adjustable border masks; double-hinged felt cushioned pressure plate; hinged masking

frame has pressure bar; paper guide placement of paper; dual spool take-up for strip printing; push-button release; transparent rulers for reading; door in front with sliding groundglass for easy reading; adjustable from zero opening to 5x7. Price on request.

WILLO 8 x 10 CHAMPION PRINTER



Metal construction; takes negatives from 2¼x3¼ to 8x10; uses four 25-watt type A white bulbs; 110 a-c, d-c line voltage recommended; groundglass diffusion; built-in adjustable border masks; pneumatic double-hinged pressure plate; built-in rheostat control. Price on request.
DIST., Willoughby's.

EXPOSURE METERS For Printing and Enlarging

DAYTON ROGERS STRIP TEST EXPOSURE METER

Slide-rule type; all metal construction; determines correct exposure time for enlarged prints by taking five different tests from the same point of interest on the negative; handles test strips up to 3½x5; sets flat on easel board. Price, $3, including tax.
MFR., Dayton Rogers Mfg. Co.

HAYNES MODEL J-3 PHOTOMETER-DENSITOMETER

Photoelectric; balanced light principle; for 110-120 volts, a-c or d-c; tells correct grade of paper to use and how long to expose enlargements; also used as projection densitometer for measuring fog level of negatives, making color prints, etc.; range from 5 foot candles to invisibility. Price, $9.45.
MFR., Haynes Photometer Co.

KODAGUIDES

Density Kodaguide. Slide-rule type; pocket-sized card with film density step tablet; estimates gray-scale density on suitably prepared negatives; useful for making separation negatives and color prints. Price, $1.

Kodak Enlarging Dataguide. Slide-rule type; includes a swatch chart of Kodak photographic paper showing surfaces, weight, color, and image tone; card has dial relating magnification, lens aperture, paper, and exposure time. Price, $.50.

Kodak Print Exposure Computer. Slide-rule type; card has dials relating magnification, density, lens aperture, and exposure time; determines exposures according to density readings; helpful in color printing with Kodak Dye Transfer Process. Price, $1.
MFR., Eastman Kodak Co.

PHOTOVOLT PHOTOMETER MODEL 200-A

Photoelectric type for enlarging and contact printing; photocell is connected by flexible cable to meter in wooden housing; no power connections; readings are taken by holding photocell to lens of enlarger; special enlargement calculator furnished separately; 4-range switch makes the unit highly sensitive; measures density of negatives; light distribution of printers, enlargers and copy board. Price, $67.50 including tax.

PHOTOVOLT ELECTRONIC SPOT-PHOTOMETER MODEL 500-A

Photoelectric type for use with a-c only; readings are taken on baseboard; operates with electronic amplification; determines exposures of enlargements by working either from the shadows or the high-lights; can be used also for light measurements on small areas of the image in the focal plane of cameras and photomicrographic equipment. Price, $195.
MFR., Photovolt Corp.

SPOT-O-MATIC MODEL 6A

Electrical; light balancing photometer; automatic calibrations; optical density wedges; permanent plastics spot; operates on 110-125 volts, a-c, or d-c; gives exposure time, paper contrast, and tells whether negatives are over- or underdeveloped; for use with all enlargers and any type of projection paper. Price, $9.95 including tax.
DIST., Kinnard Co.

TESTRIP

Manually operated test strip maker; press board over pine framework construction; makes 4 test strip having either four 1-inch steps or eight ½-inch steps; determines the proper exposure for the effect desired; for all enlargers and papers. Price, $1.
MFR., Kent-Hall Products Co.

WESTON 877 PHOTOGRAPHIC ANALYZER

Electric; operates on 105-120 volts, a-c, or d-c; uses photoelectric cell; portable combination illumination meter and transmission densitometer; illuminated scale calibrated to read either illumination or density; supplied with a calculator, step wedges, gray scale, plotting paper, a multiplier disc for high light intensities, and an instruction book; determines exposure time for printing and making separation negatives; determines the gamma of development; the speed of papers and sensitized material in terms of the users equipment and technique. Price, $100.
MFR., Weston Electrical Inst. Corp.

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PHOTOGRAPHIC LENSES

(All lenses listed have iris diaphragm unless otherwise specified. Accessory lenses for specific cameras will be found under camera listings.)

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
BAUSCH & LOMB					
CONVERTIBLE PROTAR VIIa, Anastigmat	12"	f/7		Still cameras; a doublet consisting of two VII Protars which can be used separately or in combinations; supplied in Betax or Ilex Acme shutters; 8 elements; black satin finish; coated; front lens, 23½"—Rear lens, 19"; covers 8x10 film.	$417.47 Inc. F.E.T.
EXTREME WIDE ANGLE PROTAR Series V, Anastigmat	4½"	f/18	f/45	Still cameras; barrel mount; 4 elements; satin black finish; coated; covers 5x7 film.	66.50 Inc. F.E.T.
TESSAR Ic, Anastigmat	4⅜"	f/4.5	f/32	Still cameras and enlarging; barrel mount; 4 elements; grain chrome finish; coated; covers 2¼x3½ film.	53.14 Inc. F.E.T.
	5½"	f/4.5	f/32	Same as above; covers 3¼x4¼ film.	64.63 Inc. F.E.T.
	6½"	f/4.5	f/32	Same as above; covers 4x5 film.	78.23 Inc. F.E.T.
	7½"	f/4.5	f/32	Same as above; covers 5x7 film.	90.18 Inc. F.E.T.
	8¼"	f/4.5	f/32	Same as above; covers 5x8 film.	123.67 Inc. F.E.T.
	10"	f/4.5	f/32	Same as above; covers 6½x8½ film.	172.67 Inc. F.E.T.
	12"	f/4.5	f/32	Same as above; covers 8x10 film.	291.67 Inc. F.E.T.
TESSAR IIb, Anastigmat	8⅜"	f/6.3	f/45	Still cameras and enlarging; barrel mount; 4 elements; grain chrome finish; coated; covers 4x5 film.	87.50 Inc. F.E.T.
MICRO TESSAR	16 mm	f/4.5		Enlarging, photomacrography; 4 elements in barrel mount; coated.	55.00 Tax Free
	32 mm	f/4.5	f/16	Same as above.	72.00 Tax Free
	48 mm	f/4.5	f/22	Same as above.	72.00 Tax Free
	72 mm	f/4.5	f/22	Same as above.	83.00 Tax Free
ANIMAR (for 8-mm cameras)	12.7 mm	f/2.8		For 8-mm movie cameras; fixed focus.	23.92 Inc. F.E.T.
	14 mm	f/1.9		Same as above; focusing mount.	60.96 Inc. F.E.T.
ANIMAR TELEPHOTO	25 mm	f/2.7		Same as above.	54.84 Inc. F.E.T.
	37.5 mm	f/3.5		Same as above.	60.96 Inc. F.E.T.
ANIMAR (for 16-mm cameras)	25 mm	f/2.7		For 16-mm movie cameras; fixed focus.	28.88 Inc. F.E.T.
	26 mm	f/1.9		Same as above; focusing mount.	67.38 Inc. F.E.T.
ANIMAR TELEPHOTO	50 mm	f/3.5		Same as above.	60.96 Inc. F.E.T.
	75 mm	f/3.5		Same as above.	79.92 Inc. F.E.T.
	100 mm	f/3.5		Same as above.	93.92 Inc. F.E.T.
BALTAR (for 16-mm cameras)	15 mm	f/2.3		For 16-mm motion picture cameras; 6 elements; barrel mount; coated.	169.17 Inc. F.E.T.
	17.5 mm	f/2.3		Same as above.	169.17 Inc. F.E.T.
	20 mm	f/2.3		Same as above.	169.17 Inc. F.E.T.
	25 mm	f/2.7		Same as above.	169.17 Inc. F.E.T.
	35 mm	f/2.3		Same as above.	175.00 Inc. F.E.T.
BALTAR (for 35-mm cameras)	25 mm	f/2.3		For 35-mm motion picture cameras; 6 elements; barrel mount; coated.	169.17 Inc. F.E.T.
	30 mm	f/2.3		Same as above.	169.17 Inc. F.E.T.
	35 mm	f/2.3		Same as above.	175.00 Inc. F.E.T.
	40 mm	f/2.3		Same as above.	182.00 Inc. F.E.T.
	50 mm	f/2.3		Same as above.	182.00 Inc. F.E.T.
	75 mm	f/2.3		Same as above.	204.17 Inc. F.E.T.
	100 mm	f/2.3		Same as above.	239.17 Inc. F.E.T.
	152 mm	f/2.7		Same as above.	297.50 Inc. F.E.T.
BELL & HOWELL					
LUMAX	1"	f/1.9 (T 2.1)	f/16	For 8 and 16 mm movie cameras; coated; color corrected; in focusing mount.	85.17 Inc. Tax
SUPER COMAT	½"	f/1.9	f/22	For 8 mm movie cameras; coated; color corrected; in focusing mount.	85.17 Inc. Tax
	0.7"	f/2.5 (T 2.7)	f/22	Same as above; for 16 mm cameras only.	85.25 Inc. Tax
	1"	f/1.9 (T 2.1)	f/22	Same as above; for 8 mm cameras only.	85.17 Inc. Tax
TELATE	1½"	f/3.5	f/22	For 8 mm movie cameras; coated; color corrected; in focusing mount.	53.00 Inc. Tax
	2"	f/3.5	f/22	Same as above. Available also in 16 mm mounts.	65.00 Inc. Tax
	3"	f/4	f/32	Same as above. For 16 mm movie cameras.	74.00 Inc. Tax
	4"	f/4.5	f/32	Same as above.	80.00 Inc. Tax
	6"	f/4.5	f/32	Same as above.	106.00 Inc. Tax
TAYLOR-HOBSON **Dist.—Bell & Howell**					
IVOTAL	½"	f/1.4	f/16	For 8 mm cameras; coated; color corrected; in focusing mount.	136.21 Inc. Tax
	2"	f/1.4 (T 1.6)	f/22	For 8 and 16 mm movie cameras; coated; color corrected; focusing mount; lens shade and filter holder.	169.17 Plus Tax
KINIC	1"	f/1.5	f/22	For 8 and 16 mm movie cameras; in focusing mount; coated and color corrected.	115.00 Inc. Tax
	2"	f/3.5	f/32	Same as above; for 8 and 16 mm cameras.	77.56 Inc. Tax
TELEKINIC	3"	f/4 (T 4.5)	f/32	Telephoto for 16 mm movie cameras; color corrected; coated; in focusing mount.	85.00 Inc. Tax
	4"	f/4.5 (T 5.1)	f/32	Same as above.	95.00 Inc. Tax
	6"	f/4.5	f/32	Same as above.	169.00 Inc. Tax
ANASTIGMAT	1½"	f/3.5	f/32	For 8 mm movie cameras; coated; color corrected; in focusing mount.	72.50 Inc. Tax
PANCHROTAL	2.8"	T 2.5	T 22	High aperture telephoto for 16 mm movie cameras; color corrected; coated; in focusing mount.	171.50 Inc. Tax
	4"	T 2.5	T 22	Same as above.	198.34 Inc. Tax
BERTHIOT **Dist.—Camera Specialty Co.**					
BERTHIOT	1½"	f/3.5	f/16	Telephoto lens for 8 mm movie cameras; anastigmat; coated; chrome mount.	32.50 Inc. F.E.T.
	1½"	f/1.9	f/16	Same as above.	42.50 Inc. F.E.T.
	17 mm	f/1.9	f/16	Wide-angle lens for 16 mm movie cameras; anastigmat; coated; chrome mount.	60.00 Inc. F.E.T.
	1"	f/1.9	f/15	Normal lens; same as above.	32.50 Inc. F.E.T.
	3"	f/3.5	f/22	Telephoto lens; same as above.	37.50 Inc. F.E.T.
CANON **Dist.—C. R. Skinner Mfg. Co.**					
SERENAR	35 mm	f/3.5	f/16	Wide-angle lens for 35 mm still cameras; anastigmat; coated; satin chrome mount; depth of field scale; coupled with rangefinder; price includes case and matched viewfinder.	99.00 Inc. F.E.T.
	85 mm	f/2	f/16	Telephoto; same as above.	144.00 Inc. F.E.T.
	100 mm	f/4	f/16	Same as above.	78.00 Inc. F.E.T.
	135 mm	f/4	f/16	Same as above.	105.00 Inc. F.E.T.
DALLMEYER **Dist.—Alco Photo Supply**					
ADON TELEPHOTO, Series XI	6"	f/4.5		Fixed separation; magnification approx. 2x linear; camera extension necessary for objects at infinity is approx. half the equivalent focal length of lens; black enamel mount finish; tubular lens hood extra; covers ¾x1 film.	Upon Request
	9"	f/4.5		Same as above; covers 2¼x3¼ film.	
	10"	f/4.5		Same as above; covers 2½x3½ film.	
	12"	f/4.5	f/45	Same as above; covers 3¼x4¼ film.	
	14"	f/4.5		Same as above; covers 4x5 film.	
	17"	f/4.5		Same as above; covers 3½x5½ film.	

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
DALLMEYER—ADON TELEPHOTO, Series XI—(Continued)	20"	f/4.5		Same as above; covers 4 ¾x6 ½ film.	Upon Request
	24"	f/4.5		Same as above; covers 5x7 film.	
	24"	f/5.6		Same as above; covers 5x7 film.	
DALLON ANASTIGMAT TELEPHOTO	4"	f/5.6		Fixed separation; magnification approx. 2x linear; camera extension necessary for objects at infinity is approx. half the equivalent focal length of lens; black enamel finish; rigid mount; covers 24x36 mm film.	Upon Request
	6"	f/5.6		Same as above; covers 4 ½x6 cm film.	
	9"	f/5.6		Same as above; covers 2 ½x3 ½ film.	
SERRAC, Series XV, Anastigmat	1 ¼"	f/4.5		Good coverage and definition; free from glare; supplied in sunk mounts, focusing mounts, between-lens shutters; covers 1x1 ¼ film.	Upon Request
	1 ½"	f/4.5		Same as above; covers 1x1 ½ film.	
	2"	f/4.5		Same as above; covers 1x1 ½ film.	
	3"	f/4.5		Same as above; covers 1 ¾x2 ¾ film.	
	3 ½"	f/4.5		Same as above; covers 2 ¼x3 ¼ film.	
	4"	f/4.5		Same as above; covers 2 ¼x3 ¼ film.	
	4 ½"	f/4.5		Same as above; covers 2 ½x3 ½ film.	
	4 ¾"	f/4.5		Same as above; covers 2 ½x3 ½ film.	
	5.3"	f/4.5		Same as above; covers 3 ¼x4 ¼ film.	
	6"	f/4.5		Same as above; covers 4x5 film.	
	6 ½"	f/4.5		Same as above; covers 3 ¼x5 ½ film.	
	7"	f/4.5		Same as above; covers 4 ¾x6 ½ film.	
	7 ½"	f/4.5		Same as above; covers 4 ¾x6 ½ film.	
	8"	f/4.5		Same as above; covers 5x7 film.	
	8 ½"	f/4.5		Same as above; covers 5x7 film.	
	10"	f/4.5		Same as above; covers 5x8 film.	
	12"	f/4.5		Same as above; covers 6 ½x8 ½ film.	
	14"	f/4.5		Same as above; covers 6 ½x8 ½ film.	
	16"	f/4.5		Same as above; covers 8x10 film.	
	18"	f/4.5		Same as above; covers 10x12 film.	
SUPER-SIX, Anastigmat	1"	f/1.9		For still and movies; 6 elements; sharp image over an angle of approx. 50°; fully corrected; focusing mount with focusing scale; covers 19x25.4 mm film.	Upon Request
	1 ¼"	f/1.9		Same as above; covers 19x25.4 mm film.	
	1 ½"	f/1.9		Same as above; covers 19x25.4 mm film.	
	1 ¾"	f/1.9		Same as above; covers 19x25.4 mm film.	
	2"	f/1.9	f/32	Same as above; covers 24x36 mm film.	
	2 ¼"	f/1.9		Same as above; covers 24x36 mm film.	
	2 ½"	f/1.9		Same as above; covers 24x36 mm film.	
	3"	f/1.9		Same as above; covers 4 ½x6 cm film.	
	3 ¼"	f/1.9		Same as above; covers 4 ½x6 cm film.	
	4"	f/1.9		Same as above; covers 2 ¼x3 ¼ film.	
	5"	f/1.9		Same as above; covers 2 ½x3 ½ film.	
	6"	f/1.9		Same as above; covers 3 ¼x4 ¼ film.	
	8"	f/1.9		Same as above; covers 4x5 film.	
CINE LENSES (for 8 mm cameras)	13 mm	f/1.9		Available in different mounts to fit all 8 mm cameras with interchangeable lenses; coated.	Upon Request
	15 mm	f/1.5		Same as above.	
	15 mm	f/2.9		Same as above.	
	20 mm	f/1.5		Same as above.	
	20 mm	f/2.9		Same as above.	
	25 mm	f/1.5		Same as above.	
	25 mm	f/1.9		Same as above.	
	25 mm	f/2.9		Same as above.	
	1 ½"	f/1.9		Same as above.	
	1 ½"	f/2.9		Same as above.	
	2"	f/1.5		Same as above.	
	2"	f/1.9		Same as above.	
	2"	f/2.9		Same as above.	
	3"	f/2.9		Same as above.	
	3"	f/3.5		Same as above.	
	3"	f/4		Same as above.	
CINE LENSES (for 16 mm cameras)	15 mm	f/1.5		Same as above, for 16 mm movie cameras.	Upon Request
	20 mm	f/1.5		Same as above.	
	1"	f/1.5		Same as above.	
	1 ½"	f/1.9		Same as above.	
	1 ½"	f/2.9		Same as above.	
	2"	f/1.5		Same as above.	
	2"	f/1.9		Same as above.	
	2"	f/2.9		Same as above.	
	3"	f/1.5		Same as above.	
	3"	f/1.9		Same as above.	
	3"	f/2.9		Same as above.	
	3"	f/3.5		Same as above.	
	3"	f/4		Same as above.	
	4"	f/3.5		Same as above.	
	4"	f/4.5		Same as above.	
	6"	f/3.5		Same as above.	
	6"	f/4.5		Same as above.	
CINE-TELEPHOTO	1 ½"	f/4		Linear magnifications from 3 to 12 times; varies in proportion to focal length of lens used; field of view decreased in same ratio; spiral lens mount focus; metal iris diaphragm, lens hood; magnification over normal lens is 3x on 8 mm only.	Upon Request
	3"	f/3.5		Same as above; mag. 3x on 16 mm.	

(Continued)

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DALLMEYER—CINE-TELEPHOTO—(Continued)	3"	f/4		Same as above; mag. 3x.	Upon Request
	3¾"	f/3.3		Same as above; mag. 3¾x.	
	4"	f/3.5		Same as above; mag. 4x.	
	4"	f/4.5		Same as above; mag. 4x.	
	6"	f/3.5		Same as above; mag. 6x.	
	6"	f/4.5		Same as above; mag. 6x.	
	6"	f/5.6		Same as above; mag. 6x.	
	9"	f/4.5		Same as above; mag. 9x.	
	9"	f/5.6		Same as above; mag. 9x.	
	10"	f/4.5		Same as above; mag. 10x.	
	10"	f/5.6		Same as above; mag. 10x.	
	12"	f/4.5		Same as above; mag. 12x.	
	12"	f/5.6		Same as above; mag. 12x.	
SPEED ANASTIGMAT	¾"	f/1.5	f/16	For amateur cinematography; suited for high magnification; 28° field with 1-inch focus lens; fully corrected; in focusing mount with scale; color corrected.	Upon Request
	1"	f/1.5	f/16	Same as above.	
	2"	f/1.5	f/16	Same as above.	
	3"	f/1.5	f/16	Same as above.	
DE JUR-AMSCO					
ANASTIGMAT	9 mm	f/2.5	f/22	For 8-mm movie cameras; coated; in chrome mount; fixed focus.	$43.15 Inc. F.E.T.
	13 mm	f/2.5	f/22	Same as above.	20.15 Inc. F.E.T.
	13 mm	f/1.9	f/22	Same as above.	25.88 Inc. F.E.T.
	13 mm	f/1.9	f/22	Same as above; in focusing mount.	45.70 Inc. F.E.T.
	25 mm	f/2.5	f/16	Same as above.	49.15 Inc. F.E.T.
	38 mm	f/3.5	f/22	Same as above.	43.15 Inc. F.E.T.
	38 mm	f/3.5	f/22	Same as above; fixed focus.	25.88 Inc. F.E.T.
CHROMTAR	3½"	f/4.5	f/22	Anastigmat enlarging lens; coated; in chromium barrel mount with click stops; covers 2¼x3¼.	27.30 Inc. F.E.T.
	4¼"	f/4.5	f/22	Same as above; covers 3¼x4¼.	31.65 Inc. F.E.T.
	5½"	f/4.5	f/22	Same as above; covers 4x5.	41.40 Inc. F.E.T.
EASTMAN					
KODAK EKTAR	101 mm	f/4.5	f/32	Fully color-corrected; 4-element with rear pair cemented; coated; covers 2¼x3¼ in No. 1 Flash Supermatic Shutter.	54.50 Inc. F.E.T.
	105 mm	f/3.7	f/32	As above; 5-element with 2 cemented pairs; in No. 2 Flash Supermatic Shutter.	85.00 Inc. F.E.T.
	127 mm	f/4.7	f/32	Same as 101 mm; covers 3¼x4¼; in Flash Supermatic Shutter.	71.50 Inc. F.E.T.
	127 mm	f/4.7	f/32	Same as above; in Supermatic-X Shutter.	62.50 Inc. F.E.T.
	152 mm	f/4.5	f/45	Same as above; in No. 3 Flash Supermatic Shutter; covers 4x5.	95.00 Inc. F.E.T.
	7½"	f/4.5	f/45	Same as above; in Ilex Acme Synchro Shutter; covers 5x7.	186.00 Inc. F.E.T.
	7½"	f/4.5	f/45	Same as above; in Ilex Universal Shutter.	149.75 Inc. F.E.T.
	7½"	f/4.5	f/45	Same as above; in barrel with iris diaphragm.	125.00 Inc. F.E.T.
	8"	f/7.7	f/45	Fully color-corrected; 4-element air spaced; coated. Covers 5x7, in Flash Supermatic Shutter.	77.50 Inc. F.E.T.
	12"	f/4.5	f/32	Fully color-corrected; 4-element with rear pair cemented; coated. Covers 8x10, in Ilex Universal Synchro Shutter.	300.00 Inc. F.E.T.
KODAK COMMERCIAL EKTAR	8½"	f/6.3	f/45	Designed for color work as well as black-and-white; well suited for portrait and exacting commercial work; 4 elements; rear pair cemented; coated; barrel mount; covers 5x7; click stops.	128.00 Inc. F.E.T.
	8½"	f/6.3	f/45	Same as above; in No. 3 Ilex Acme Synchro Shutter.	175.00 Inc. F.E.T.
	10"	f/6.3	f/45	Same as above; in barrel mount; covers 6½x8½.	175.00 Inc. F.E.T.
	10"	f/6.3	f/45	Same as above; in No. 4 Ilex Acme Synchro Shutter.	225.00 Inc. F.E.T.
	12"	f/6.3	f/45	Same as above; in barrel mount; covers 8x10.	215.00 Inc. F.E.T.
	12"	f/6.3	f/45	Same as above; in No. 4 Ilex Acme Synchro Shutter.	270.00 Inc. F.E.T.
	14"	f/6.3	f/45	Same as above; in barrel mount; covers 8x10.	250.00 Inc. F.E.T.
	14"	f/6.3	f/45	Same as above; in No. 5 Ilex Universal Synchro shutter.	295.00 Inc. F.E.T.
KODAK WIDE FIELD EKTAR	80 mm	f/6.3	f/32	Highly corrected for color; 4 elements; air spaced; coated; maintains high degree of perfection at unit magnification; focus does not change at various stops; screw-in filter retaining rings; Kodak Flash Supermatic shutter; covers 2¼x3¼ at f/6.3 with 75° field; 3¼x4¼ at f/16 with 80° field.	118.00 Inc. F.E.T.
	100 mm	f/6.3	f/32	Same as above; covers 3¼x4¼ at f/6.3 with 75° field; 4x5 at f/16 with 80° field.	125.00 Inc. F.E.T.
	135 mm	f/6.3	f/32	Same as above; covers 4x5 at f/6.3 with 75° field; 5x7 at f/16 with 80° field.	145.00 Inc. F.E.T.
	190 mm	f/6.3	f/45	Same as above; No. 4 Ilex Acme Synchro shutter; covers 5x7 at f/6.3 with 75° field; 8x10 at f/16 with 80° field.	220.00 Inc. F.E.T.
	250 mm	f/6.3	f/45	Same as above; No. 5 Ilex Universal Synchro shutter; covers 8x10 at f/6.3 with 75° field; 11x14 at f/16 with 80° field.	260.00 Inc. F.E.T.
KODAK CINE EKTAR	15 mm	f/2.5		Fully color corrected; coated; depth of field scale; wide angle for 16-mm movie cameras.	77.50 Inc. F.E.T.
	25 mm	f/1.9		Fully color corrected; coated; depth of field scale; for 8 and 16-mm movie cameras.	98.50 Inc. F.E.T.
	25 mm	f/1.9		Same as above, for Cine-Kodak Magazine 8 and 16 cameras.	75.00 Inc. F.E.T.
	25 mm	f/1.4		Fully color corrected; coated; depth of field scale; for 8 and 16-mm movie cameras.	195.00 Inc. F.E.T.
	40 mm	f/1.6		Same as above.	128.50 Inc. F.E.T.
	61 mm	f/2.0		Same as above.	129.50 Inc. F.E.T.
	102 mm	f/2.7		Same as above for 16 mm movie cameras.	139.50 Inc. F.E.T.
	152 mm	f/4.0		Same as above.	164.50 Inc. F.E.T.
KODAK CINE EKTANON	9 mm	f/2.7		Coated; wide angle for Cine Kodak Magazine 8 camera.	49.75 Inc. F.E.T.
	13 mm	f/1.9		Coated; for 8-mm movie cameras with standard 8-mm screw mount.	42.50 Inc. F.E.T.
	15 mm	f/2.7		Coated; wide angle for 16-mm movie cameras	58.50 Inc. F.E.T.
	25 mm	f/1.9		Coated; for 16-mm movie cameras with standard Type C threaded lens mount.	64.25 Inc. F.E.T.
	38 mm	f/4.5		For Cine Kodak Eight Model 60 Camera.	50.00 Inc. F.E.T.
	38 mm	f/2.8		Coated; for 8 mm movie cameras with standard 8 mm screw mounts.	43.75 Inc. F.E.T.
	38 mm	f/2.5		Coated; for Cine Kodak Magazine 8 camera.	56.75 Inc. F.E.T.
	50 mm	f/1.6		Coated; for 8 and 16 mm movie cameras.	94.50 Inc. F.E.T.
	61 mm	f/2.7		Same as above.	76.00 Inc. F.E.T.
	102 mm	f/2.7		Coated; for 16-mm movie cameras.	84.50 Inc. F.E.T.
	152 mm	f/4.5		Same as above.	96.50 Inc. F.E.T.
KODAK ENLARGING EKTAR LENSES	2"	f/4.5	f/22	Color corrected; click stops; coated; in 2⅝x2⅝ metal lensboard; for negatives to 1 11/16x1 11/16.	49.75 Inc. F.E.T.
	3"	f/4.5	f/22	Same as above; for negatives to 2¼x2¼.	52.50 Inc. F.E.T.
	4"	f/4.5	f/22	Same as above; for negatives to 2¼x3¼.	56.00 Inc. F.E.T.
KODAK ENLARGING EKTANON	2"	f/4.5	f/22	High quality, designed largely for black-and-white; coated; in 2⅝x2⅝ metal lensboard; for negatives to 1 11/16x1 11/16.	22.50 Inc. F.E.T.
	3"	f/4.5	f/22	Same as above; for negatives to 2¼x2¼.	25.75 Inc. F.E.T.
	4"	f/4.5	f/22	Same as above; for negatives to 2¼x3¼.	32.75 Inc. F.E.T.
	5⅜"	f/4.5	f/22	Same as above; for negatives to 3¼x4¼.	50.00 Inc. F.E.T.
	6⅝"	f/4.5	f/22	Same as above; for negatives to 4x5.	55.00 Inc. F.E.T.
	7½"	f/4.5	f/32	Same as above; click stops, also recommended for color enlarging; for negatives to 5x7.	93.50 Inc. F.E.T.
	10"	f/4.5	f/32	Same as above; for negatives to 8x10.	156.50 Inc. F.E.T.
	10"	f/8	f/45	Same as above; especially recommended where maximum definition is required.	143.00 Inc. F.E.T.

PHOTOGRAPHIC LENSES—Continued

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
ELGEET					
CINE-TEL	1½"	f/3.5	f/16	Anastigmat telephoto for 8-mm movie cameras; 3x magnification; coated; click stops; in chrome focusing mount to 4 feet.	$40.25 Inc. F.E.T.
	1½"	f/2.5	f/16	Same as above; focuses to 2½ feet.	47.55 Inc. F.E.T.
FIXED-FOCUS CINE TEL	1½"	f/3.5	f/16	Same as above; universal focus.	31.30 Inc. F.E.T.
	2"	f/3.5	f/16	Same as above; for 16 mm cameras; 2x magnification.	36.90 Inc. F.E.T.
FOCUSING CINE TEL	1"	f/1.9	f/16	In focusing mount for 8 or 16-mm cameras; coated; click stops; depth of field scale.	55.70 Inc. F.E.T.
	2"	f/3.5	f/16	For 16-mm cameras; anastigmat; coated; "C" focusing mount; 2x magnification.	52.30 Inc. F.E.T.
	3"	f/2.9	f/22	Same as above; 3x magnification.	64.30 Inc. F.E.T.
	4"	f/2.7	f/22	Same as above; 4x magnification.	80.55 Inc. F.E.T.
WIDE-ANGLE ANASTIGMAT	7 mm	f/2.5	f/16	Covers 4x area of standard lens for 8-mm cameras.	41.40 Inc. F.E.T.
	13 mm	f/1.5	f/16	Covers 4x area of standard lens for 16-mm cameras; coated; 7 elements; click stops; depth of field scale; screw thread or Kodak mount.	88.95 Inc. F.E.T.
GOERZ					
APOCHROMAT ARTAR, Anastigmat	4"	f/9		Four elements, in two uncemented pairs; for color separation, black-and-white reproduction, outdoor scenes, architecture, etc.; listed coverage increases 15% if reversing prism is not used; in iris barrel with slots for stops and filters; covers 4x5 film at 1:1.	75.00
	6"	f/9		Same as above. Covers 6x8 film—This and above lens for color separation blowups from 35 mm (and up) color film.	84.00 Plus Tax
	9½"	f/9		Same as above; covers 8x10 film at 1:1.	150.00 Plus Tax
	10¾"	f/9		Same as above; covers 9x12 film at 1:1.	156.00 Plus Tax
	12"	f/9		Same as above; covers 12x14 film at 1:1.	168.00 Plus Tax
	14"	f/9		Same as above; covers 14x17 film; this and all above lenses can be fitted to shutters.	196.00 Plus Tax
	16½"	f/9.5		Same as above; covers 16x20 film at 1:1; this and all lenses below can be fitted only in iris barrel with slots.	213.00 Plus Tax
	19"	f/11		Same as above; covers 18x24 film at 1:1.	228.00 Plus Tax
	24"	f/11		Same as above; covers 24x28 film at 1:1.	312.00 Plus Tax
	30"	f/12.5		Same as above; covers 30x34 film at 1:1.	432.00 Plus Tax
	35"	f/12.5		Same as above; covers 36x40 film at 1:1.	621.00 Plus Tax
	42"	f/14		Same as above; covers 42x48 film at 1:1.	732.00 Plus Tax
	47½"	f/15		Same as above; covers 48x56 film at 1:1.	834.00 Plus Tax
	70"	f/16		Same as above; covers 72x80 film at 1:1.	Upon Request
DAGOR, Anastigmat	40 mm	f/6.8	f/45	Six-element general purpose lens; for use on 35 mm document cameras.	Upon Request
	60 mm	f/6.8	f/45	Same as above.	Upon Request
	3½"	f/6.8	f/45	When stopped down acts as wide angle lens with field of 87°; single element at a speed of f/13 may be used alone, with focal length about 1¾ times that of doublet; covers 2x2¾ open and 3¼x4¼ stopped down.	69.00 Plus Tax
	4⅛"	f/6.8	f/45	Same as above; covers 2¼x3¼ negative open, 4x5 stopped down.	72.00 Plus Tax
	5"	f/6.8	f/45	Same as above; covers 3¼x4¼ negative open, 5x7 at f/45.	78.00 Plus Tax
	6"	f/6.8	f/45	Same as above; covers 4x5 negative open, 6½x8½ stopped down.	84.00 Plus Tax
	6½"	f/6.8	f/45	Same as above; covers 3¼x5½ open, 7x9 stopped down.	90.00 Plus Tax
	7"	f/6.8	f/45	Same as above; covers 5x7 open, 8x10 stopped down.	108.00 Plus Tax
	8¼"	f/6.8	f/45	Same as above; covers 5x8 open, 10x12 stopped down.	135.00 Plus Tax
	9½"	f/6.8	f/45	Same as above; covers 6½x8½ open, 11x14 stopped down.	168.00 Plus Tax
	10¾"	f/6.8	f/45	Same as above; covers 7x9 open, 12x16 stopped down.	196.00 Plus Tax
	12"	f/6.8	f/45	Same as above; covers 8x10 open, 14x17 stopped down.	228.00 Plus Tax
	14"	f/7.7	f/45	Covers 10x12 open; 16x20 stopped down.	282.00 Plus Tax
	16½"	f/7.7	f/45	Same as above; covers 11x14 open, 20x24 stopped down.	360.00 Plus Tax
	19"	f/7.7	f/45	Same as above; covers 14x17 open, 22x26 stopped down.	432.00 Plus Tax
SUPER-DAGOR, Wide Angle, Anastigmat	3⅜"	f/8	f/45	Front or rear combination may be used as a long-focus lens at medium stops; angle of field at smallest stop, 100°; price is for lens in iris barrel. Covers 3¼x4¼ to 4x5 negative; requires Ropax No. 2 shutter.	78.00 Plus Tax
	4⅜"	f/8	f/45	Covers 4x5 to 5x7 negative; requires Ropax No. 3 shutter.	90.00 Plus Tax
	6½"	f/8	f/45	Covers 5½x7½ to 8x10 negative; requires Ropax No. 3 or Acme No. 3 shutter.	114.00 Plus Tax
DOGMAR, Anastigmat	3⅛"	f/4.5	f/32	Four elements, in two uncemented pairs; each pair makes a complete unit which may be used separately; front has a focal length of 1.92 times doublet at speed of f/9; rear has length of 1.52 times the doublet at a speed of f/8; for news cameras and 1-shot color work; covers 1¾x2⅜ negative at full aperture.	51.00 Plus Tax
	4⅛"	f/4.5	f/32	Same as above; covers 2x3 negative.	60.00 Plus Tax
	5¼"	f/4.5	f/32	Same as above; covers 3¼x4¼ negative.	69.00 Plus Tax
	6"	f/4.5	f/32	Same as above; covers 3½x4¾ negative.	81.00 Plus Tax
	6½"	f/4.5	f/32	Same as above; covers 3¼x5½ negative.	90.00 Plus Tax
	7½"	f/4.5	f/32	Same as above; covers 4¼x6¼ negative.	102.00 Plus Tax
	8¼"	f/4.5	f/32	Same as above; covers 5x7 negative.	120.00 Plus Tax
	9½"	f/4.5	f/32	Same as above; covers 5½x7½ negative.	159.00 Plus Tax
	10¾"	f/4.5	f/32	Same as above; covers 6½x8½ negative.	198.00 Plus Tax
	12"	f/4.5	f/32	Same as above; covers 7x9 negative.	267.00 Plus Tax
GOTAR, Anastigmat	8¼"	f/6.8		Four elements, in two uncemented pairs; for black-and-white, process, and copying, or for reproduction of fine detail in flat surface design; in iris barrel, no slot; covers 5x7 film at infinity, 10x12 at 1:1.	114.00 Plus Tax
	10"	f/8		Same as above; covers 6½x8½ film.	126.00 Plus Tax
	12"	f/8		Same as above; covers 8x10 film.	147.00 Plus Tax
	14"	f/8		Same as above but with slot; covers 10x12 film.	192.00 Plus Tax
	16½"	f/8		Same as above; covers 11x14 film.	216.00 Plus Tax
	19"	f/8		Same as above; covers 12x16 film.	234.00 Plus Tax
	24"	f/10		Same as above; covers 14x17 film.	315.00 Plus Tax
KINO-HYPAR, Anastigmat	0.6"	f/2.7		Three-element lens for 16 mm movie cameras. In iris diaphragm barrel. For wide angle work with 16 mm cameras.	Upon Request
	1"	f/2.7		Same as above but not wide angle.	
	1⅜"	f/2.7		Same as above; 1⅜x mag.	
	2"	f/2.7		Same as above; 2x mag.	
	3"	f/2.7		Same as above; 3x mag.	
	4"	f/2.7		Same as above; 4x mag.	
	4"	f/3		Same as above.	
CINE APOGOR, Anastigmat	35 mm	f/2.3	f/16	Six-element high quality lens for 16 (and 35 mm) movie cameras; corrected for all aberrations at full opening; comes in "C" focusing mount, coated.	160.00 Plus Tax
	35 mm	f/2.3	f/16	Same as above; uncoated.	150.00 Plus Tax
	50 mm	f/2.3	f/22	Same as above; coated.	180.00 Plus Tax
	50 mm	f/2.3	f/22	Same as above; uncoated.	164.00 Plus Tax
	75 mm	f/2.3	f/32	Same as above; coated.	210.00 Plus Tax
C-DOGMAR, Anastigmat	6"	f/4.5		Four-element lens for telephoto work with 35 mm movie cameras; in iris barrel.	90.00 Plus Tax
				"C" focusing mount for 16 mm cameras, with lens above.	48.00 Plus Tax
GRAFLEX					
OPTAR	101 mm	f/4.5	f/32	For still cameras; corrected for color work; all lens surfaces coated; anastigmat; mounted in Graflex Synchro shutter; covers 2¼x3¼ film; for portrait, commercial copy, and enlarging.	73.78
	135 mm	f/4.7	f/32	Same as above; covers 3¼x4¼ film; used on 4x5.	84.50
	135 mm	f/4.7	f/32	Same as above; in Graflex X shutter.	74.50

(Continued)

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
GRAFLEX—(Continued)					
TELE-OPTAR	10"	f/5.6	f/32	For still photography; Optar formula; all surfaces coated; covers 4x5 film; in barrel mount.	$140.00
	10"	f/5.6	f/32	Same as above; in No. 3 Graphex shutter.	158.35
	15"	f/5.6	f/32	Same as above; covers 4x5 film; in barrel.	201.25
WIDE-ANGLE OPTAR	90 mm	f/6.8	f/32	For interiors, banquet, and architectural work; focusing aperture f/6.8; taking apertures from f/11 to f/32; Optar formula; all surfaces coated; in Graphex Synchro shutter; covers 3¼x4¼ and 4x5 films.	89.48
GUNDLACH					
GUNDLACH ANASTIGMAT, Series IV	5¼"	f/6.3		Enlarging, copy work, and commercial work; 4 elements in combinations of 2; flat field; also available in Rapax and Alphax shutters; covers 3¼x4¼ negatives; price in barrel.	34.00 Plus Tax
	6½"	f/6.3		Same as above; available in Betax and Rapax shutters; covers 4x5 negatives; price in barrel.	40.00 Plus Tax
	7½"	f/6.3		Same as above. Covers 5x7 negatives.	54.00 Plus Tax
	8½"	f/6.3		Same as above; available in Alphax and Rapax shutters; covers 5x8 negatives; price in barrel.	74.00 Plus Tax
	10½	f/6.3		Same as above; also available in Acme shutter; covers 6½x8½ negatives; price in barrel.	90.00 Plus Tax
	12"	f/6.3		Same as above. Available in Betax and Acme shutters; covers 8x10" negatives; price in barrel.	112.00 Plus Tax
	16"	f/6.3		Same as above. Available in Betax shutter; covers 11x14" negative; price in barrel.	140.75 Plus Tax
GUNDLACH CONVERTIBLE	4½"	f/6.3		Triple convertible 8-element lens; corrected for color; available in various shutters; front focus, 8"; rear focus, 8"; covers 3¼x4¼ film; in barrel.	60.00 Plus Tax
	5⅛"	f/7		Same as above; covers 3¼x5 film; front focus,10"; rear focus, 8".	61.00 Plus Tax
	5¼"	f/6.3		Same as above; covers 4x5 film; front focus, 10"; rear focus, 10".	66.00 Plus Tax
	6¼"	f/7.7		Same as above; covers 4x5 film; front focus, 14"; rear focus, 9".	70.00 Plus Tax
	6½"	f/7		Same as above; covers 4x5 film; front focus, 13"; rear focus, 10".	73.00 Plus Tax
	7"	f/7.7		Same as above; covers 5x7 film; front focus, 15½"; rear focus, 10".	80.00 Plus Tax
	7½"	f/6.3		Same as above; covers 5x7 film; front focus, 13"; rear focus, 13".	86.00 Plus Tax
	7¼"	f/7		Same as above; covers 5x7 film; front focus, 14"; rear focus, 11½".	87.00 Plus Tax
	7⅝"	f/7.7		Same as above; covers 5x8 film; front focus, 16¼"; rear focus, 11½".	98.00 Plus Tax
	8"	f/6.3		Same as above; covers 5x8 film; front focus, 14"; rear focus, 14".	98.00 Plus Tax
	8⅛"	f/7		Same as above; covers 5x8 film; front focus, 15½"; rear focus, 13".	98.00 Plus Tax
	9⅛"	f/7.7		Same as above; covers 6½x8½ film; front focus, 19"; rear focus, 14".	107.00 Plus Tax
	8⅝"	f/7		Same as above; covers 6½x8½ film; front focus, 16¼"; rear focus, 14".	129.00 Plus Tax
	10⅞"	f/7.7		Same as above, covers 6½x8½ film, front focus, 24"; rear focus, 14".	140.75 Plus Tax
	11½"	f/6.3		Same as above; covers 8x10" film; front focus, 20"; rear focus, 20".	151.75 Plus Tax
	12¼"	f/7		Same as above; covers 8x10 film; front focus, 24"; rear focus, 19".	160.75 Plus Tax
	12½"	f/7.7		Same as above; covers 8x10 film; front focus, 27"; rear focus, 19".	170.75 Plus Tax
	14½"	f/7		Same as above; covers 10x12 film; front focus, 27"; rear focus, 24".	184.25 Plus Tax
	15"	f/7		Same as above; covers 11x14 film; front focus, 29"; rear focus, 24".	217.25 Plus Tax
GUNDLACH SPEED LENS	3"	f/4.5		Critical definition; flat field at full aperture; 4-element; available in various shutters; covers 1½x2½; in barrel.	27.00 Plus Tax
	4"	f/4.5		Same as above; covers 2¼x3¼ film.	36.00 Plus Tax
	5"	f/4.5		Same as above; covers 3¼x4¼ film.	39.00 Plus Tax
	6¼"	f/4.5		Same as above; covers 4x5 film.	52.00 Plus Tax
	7½"	f/4.5		Same as above; covers 5x7 film.	66.00 Plus Tax
	8⅛"	f/4.5		Same as above; covers 5x8 film.	96.00 Plus Tax
	9½"	f/4.5		Same as above; covers 6½x8½ film.	132.00 Plus Tax
	12"	f/4.5		Same as above; covers 8x10 film.	165.00 Plus Tax
TURNER-REICH CONVERTIBLE, Anastigmat	5"	f/6.8	f/45 and f/64	Triple convertible, 10-element lens, all air surfaces coated; highly corrected for color; for studio, landscape, copy, commercial and enlarging; front focus 12", rear focus comb., 8"; covers 3¼x4¼ film; in barrel.	70.00 Plus Tax
	6¼"	f/6.8	f/45 and f/64	Same as above; covers 4x5 film; focus front comb. 14", rear comb. 11".	79.00 Plus Tax
	7½"	f/6.8	f/45 and f/64	Same as above; covers 5x7 film; focus front comb. 18"; rear comb. 12".	94.00 Plus Tax
	8½"	f/6.8	f/45 and f/64	Same as above; covers 5x8 film; focus front comb. 20"; rear comb. 14".	100.00 Plus Tax
	10½"	f/6.8	f/45 and f/64	Same as above; covers 6½x8½ film; focus front comb. 24"; rear comb. 18".	136.00 Plus Tax
	12"	f/6.8	f/45 and f/64	Same as above; covers 8x10 film; focus front comb. 28"; rear comb. 21".	172.25 Plus Tax
	15"	f/6.8	f/45 and f/64	Same as above; covers 11x14 film; focus front comb. 36", rear comb. 24".	241.00 Plus Tax
RADAR ANASTIGMAT	3½"	f/4.5	f/64	Fast 3-element lens; all air surfaces coated; flat field at full aperture; suitable for every class of photography; available in various shutters; covers 2¼x3¼ film; in barrel mount.	27.00 Plus Tax
	5"	f/4.5	f/64	Same as above; covers 3¼x4¼ film.	39.00 Plus Tax
	6¼"	f/4.5	f/64	Same as above; covers 4x5 film.	55.00 Plus Tax
	7½"	f/4.5	f/64	Same as above; covers 5x7 film.	70.75 Plus Tax
	8½"	f/4.5	f/64	Same as above; covers 5x8 film.	100.25 Plus Tax
	10½"	f/4.5	f/64	Same as above; covers 6½x8½ film.	139.25 Plus Tax
	12"	f/4.5	f/64	Same as above; covers 8x10 film.	175.25 Plus Tax
	15"	f/4.5	f/64	Same as above; covers 10x12 film.	233.75 Plus Tax
	18"	f/4.5	f/64	Same as above; covers 11x14 film.	246.25 Plus Tax
RADAR EXTREME WIDE ANGLE	4⅛"	f/16	f/64	Coated anastigmat wide angle (90°) lens; critical definition; flat field; available in various shutters; for studio, commercial, and flash photography; covers 5x7 film; in barrel.	37.00 Plus Tax
	6¼"	f/16	f/64	Same as above; covers 8x10 film.	49.00 Plus Tax
RADAR TELEPHOTO, Anastigmat	9"	f/5.6		Back focus one-half length of equivalent focus; can obtain large-sized image with short bellows; also available in Betax, Alphax, Rapax, and Universal shutters; covers 2¼x3¼ film; in barrel.	114.50 Plus Tax
	11"	f/5.6		Same as above; covers 3¼x4¼ film.	138.00 Plus Tax
	14"	f/5.6		Same as above; covers 4x5 film.	175.00 Plus Tax
	18"	f/5.6		Same as above; covers 5x7 film.	214.00 Plus Tax
RADAR CINE LENS, Ultrastigmat	13 mm	f/1.9	f/16	For 8 mm movie cameras; focusing mount; supplied in Type A or C mount; for adverse lighting.	45.00 Plus Tax
	19 mm	f/2.5		Same as above; for 16 mm camera.	45.00 Plus Tax
	25 mm	f/2.5		Same as above; for 8 mm camera.	45.00 Plus Tax
	25 mm	f/1.9		Same as above; for 16 mm camera.	48.00 Plus Tax
	38 mm	f/3.5		Same as above; for 8 mm camera.	45.00 Plus Tax
	40 mm	f/1.9		Same as above; for 16 and 35 mm cameras.	60.00 Plus Tax
	50 mm	f/1.9		Same as above.	60.00 Plus Tax
HUGO MEYER					
KINO PLASMAT	1"	f/1.5	f/16	High-speed anastigmat lens for 16 mm movie cameras; highly corrected; coated.	84.00 Inc. F.E.T.
TRIOPLAN	1½"	f/2.9	f/16	Cooke Triplet type lens; coated; screw focusing mount; for 8 mm cameras.	54.00 Inc. F.E.T.
	3"	f/2.8	f/16	Same as above; for 16 mm cameras.	82.50 Inc. F.E.T.
PRIMOTAR	3½"	f/4.5	f/22	Enlarging lens; coated; highly corrected.	27.50 Inc. F.E.T.
ILEX					
NEW PARAGON, Anastigmat	3"	f/4.5		Highly corrected anastigmat; coated; for black-and-white and color work; available in Universal shutter for $41.30. Covers 2¼x2¼ film. All prices in right-hand column are for lens in barrel.	
	3½"	f/4.5		Same as above; covers 2¼x3¼ film. In Universal shutter, $43.00.	28.60
	4½"	f/4.5		Same as above; covers 2½x3½ film; in Ilex Universal, $44.70.	30.30
					37.70

(Continued)

WAR SURPLUS OPTICAL BARGAINS

ASSEMBLE YOUR OWN BINOCULARS

Complete Optics!

Complete Metal Parts

SAVE More Than ½ Regular Cost

GOVERNMENTS 7x50 BINOCULARS

(American Made—Not Japanese)

Here's an unusual opportunity to secure a fine set of Binoculars at a substantial saving of money. Offered here are complete sets of Optics and Metal parts for the 7x50 Binoculars. These components are new and all ready for assembly. Full instructions supplied. **METAL PARTS**—Set includes all Metal Parts—completely finished—for assembly of 7x50 Binoculars. No machining required. A sturdy Binocular Carrying Case is optional with each set of Metal Parts.

Stock No. 842-P — **$39.40 Postpaid**
plus $4.80 for Case — **Total $44.20**

OPTICS—Set includes all Lenses and Prisms you need for assembling 7x50 Binoculars. These optics are in excellent condition—perfect or near perfect and have new low reflection coating.

Stock No. 5102-P—7x50 Optics — **$25.00 Pstpd.**

NOTICE: Add 20% Federal Excise Tax to your remittance if you buy both Binocular Optics and Metal Parts.

SIMPLE LENS KITS

THE LENS CRAFTERS DELIGHT! Fun for adults! Fun for children! Kits include plainly written, illustrated booklet showing how you can build lots of optical items. Use these lenses in photography, for copying, **ULTRA CLOSE-UP SHOTS**, Microphotography, for "Dummy Camera," Kodachrome Viewer, Detachable Reflex View Finder for 35 mm. cameras, Stereoscopic Viewer, ground glass and enlarging focusing aids. And for dozens of other uses in experimental optics, building TELESCOPES, low power Microscopes, etc.

Stock # 2-P—10 lenses — **$ 1.00 Postpaid**
Stock # 5-P—45 lenses — **$ 5.00 Postpaid**
Stock #10-P—80 lenses — **$10.00 Postpaid**

$1200.00 VALUE for $95.00

SCISSORS TELESCOPE—Gives 100 times greater stereoscopic power than the unaided eye. Binocular type. Big field of view. 12 power. Furnished complete with tripod mount and case. Used by Army and Navy for long distance spotting, target observation, etc. Used but good condition. Shipped Lieb. Camden, N. J. (Weight approx. 29 lbs.)

Stock No. 952-P — **$95.00**

PLASTIC HOBBYISTS! Your chance to get a large, heavy piece of super, optical quality Plexiglas, approx. 1¾" thick, 7½" long, 6¼" wide — weight, 4 lbs. 5 ozs. Actually a U. S. Army Plexiglas Periscope containing at least $7.00 worth of Plexiglas. Carve it! Saw it! Mold it! Makes numerous plastic novelties.

Stock #725-P — **$3.00 each Postpaid**
6 or more units — **$2.75 each Postpaid**
12 or more units — **$2.25 each Postpaid**

MOUNTED TELESCOPE EYE-PIECE—Kellner type. Excellent astronomical and other telescopes. War Surplus. Government cost about $18.00. Focal length 24 mms. Lens diameter 23 mms. Unusually wide field.

Stock No. 5189-P — **Price $3.25 Postpaid**

THICK FIRST SURFACE MIRROR—Aluminized and hard coated. May be cleaned without scratching surface. Optically flat to ¼ wave. Size 3⅛"x3⅛" — ⅝" thick. Excellent substitute for large Right Angle Prism.

Stock #562-P — **$3.00 Postpaid**

SEE COLOR TELEVISION NOW! TODAY!

...for only $1.00

SEE YOUR BLACK AND WHITE IMAGE IN VIVID COLORS. This optical "convertor" costs only $1.00. Get yours today and amaze your friends. A beautiful sight. All colors of the rainbow.

Here's how—Just hold one of our plain tank prisms up to your eyes and look straight through the prism. You see the television image in brilliant hues of red, orange, yellow, green, blue, indigo, violet.

PRACTICAL? Not for steady use, but it sure is a stimulating sight. Since a prism breaks white light up into all the colors of the spectrum—the colors you see are not the actual colors of the objects, but they are indeed beautiful.

Until you have held a prism in direct sun rays and flashed the spectrum on the wall of a dark room, you haven't seen nature's most spectacular show.

Don't wait any longer. These are war surplus and would normally cost more than you could afford to spend but now they cost only $1.00 delivered to your house. See your television image in color now!

Stock #3101-P—Plain Tank Prism (Seconds—Slightly chipped) — **$1.00 Postpaid**

Stock #3005-P—Plain Tank Prism (First Class) — **$2.00 Postpaid**

TELESCOPE EYE-PIECE—Consists of 2 Achromatic lenses F.L. 28mm, in a metal mount.

Stock No. 5140-P — **$4.50 Postpaid**

MAKE YOUR OWN ENLARGER

MOUNTED ANASTIGMAT LENSES

Use for Projectors, Enlargers, Copying Cameras. Complete with Shutter and Diaphragm. Value about $20. These were made for a specific camera but had longer or shorter focal length than could be used, and then the camera was discontinued. An excellent buy. WE WILL INCLUDE FREE ILLUSTRATED BOOK-LET on HOW TO MAKE YOUR OWN ENLARGER.

Stock No. 8004-P. Speed f/7.7, focal length approx. 127 mms. Suitable for pictures, negatives, positives up to 3¼x4¼". — **$7.50 Postpaid**

Stock No. 8006-P. Speed of f/7.7, focal length approx. 100 mms. Suitable for pictures, etc. up to 2¼x3¼". — **$8.50 Postpaid**

CONDENSING LENSES—Seconds, but suitable for Enlargers and Spotlights.

	Ea. Pstpd.
Stock No. 1103-P—3½" dia. ½" F.L.	$ .50
Stock No. 1086-P—1⅝" dia. 3" F.L.	.25
Stock No. 1077-P—2⅜" dia. 3" F.L.	1.00
Stock No. 1084-P—2½" dia. 4" F.L.	1.00
Stock No. 1099-P—3¼" dia. 6½" F.L.	1.20
Stock No. 1080-P—5" dia. 7" F.L.	1.00
Stock No. 1019-P—6" dia. 16" F.L.	2.00
Stock No. 1061-P—6½" dia. 9" F.L.	2.50

MOUNTED PROJECTION LENS—Speed F/1.9 — F.L. 15 mm. $22.00 value for $7.50. Low Reflection Coated. Used on 8 or 16 mm. Movie Projectors — or to make a Desk Viewer or Editor — for 16 mm. Micro-film Reader — for Contour Projector for very small items.

Stock #4045-P — **$7.50 Postpaid**

OWNERS OF MINIATURE CAMERAS USING 16 MM. FILM

Stock #4045-P above, is an excellent lens for making a still Projector to show your transparencies.

NEW 50-PAGE IDEA BOOK "FUN WITH CHIPPED EDGE LENSES"

Contains wide variety of projects and fully covers the fascinating uses of all lenses in sets listed above — **only $1.00 Postpaid.**

UNUSUAL BARGAIN BUBBLE SEXTANTS

These Army Air Forces Bubble Sextants costs the Govt. about $125 each. A real bargain at our price at $12.50! Wooden carrying case included. Also auxiliary items. Wartime used. **BUT COMPLETELY REPAIRED COLLIMATED AND PUT IN GOOD WORKING ORDER.** If not satisfied that Sextant is exactly as represented, return within 10 days for refund. Full directions for use accompany each shipment.

Stock No. 924-P — **$12.50 Postpaid**

Stock No. 953-P—Same Sextant as above but only fair condition and not in good working order. Sold as is — **$5.75 Postpaid**

Stock No. 954-P—Same Sextant as above but poor condition. No carrying case or accessories. Sold as is — **$2.50 Postpaid**

Same Sextant as 924-P, but **BRAND NEW** and with Automatic Electric Averaging Device and Illuminated Averaging Disc for nighttime use. Govt. cost $217. Though brand new we have rechecked Bubble and Collimation and GUARANTEE perfect working order.

Stock No. 933-P — **$22.50 Postpaid**

BUBBLE SEXTANT—TYPE A-8A. Excellent condition but may be slightly used. Each has been carefully checked and collimated. Averaging device for nighttime use. Carrying Case and instruction booklet included. Gov't. cost about $325.00. Attention! Boat Owners! This Sextant can also be used to view the natural horizon.

Stock #946-P — **$32.50 Postpaid**

SPECIAL! SPECIAL! PROJECTING LENS SETS!

SLIDE PROJECTOR SETS

Consists of all unmounted lenses you need to make the following size projectors:

Stock #4038-P—2¼"x2¼" — **$3.35 Postpaid**
Stock #4039-P—2½"x3½" — **$3.35 Postpaid**
Stock #4029-P—35 mm. — **$2.85 Postpaid**

35 MM. KODACHROME PROJECTING LENS SET—Consists of a mounted projecting lens, heat absorbing glass, 2 condensing lenses.

Stock #4035-P — **$4.85 Postpaid**

MOUNTED PROJECTING LENS SYSTEM—F.L. 91.44 mm. (just right for 35-mm. Projectors). Speed of F/1.9. Outside dia. of mount at one end 60 mm. Length of mount 64 mm.

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LENS CLEANING TISSUE—1st quality sheet size 11x7½ in. Made to Govt. specifications. High wet strength. Free of abrasives.

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Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
ILEX—NEW PARAGON Anastigmat—(Continued)	5"	f/4.5		Same as above; covers 3¼x4¼ film, in Ilex Universal, $54.80.	$44.40
	5½"	f/4.5		Same as above; covers 3¼x4¼ film; in Ilex Universal, $72.45; in Ilex Acme No. 3, $77.15; in Acme Synchro shutter, $111.00.	48.80
	6½"	f/4.5		Same as above; covers 4x5 film. In Ilex Universal, $77.45; in Ilex Acme No. 3, $83.15; in Acme Synchro shutter, $116.00.	54.60
	7½"	f/4.5		Same as above; covers 5x7 film. In Ilex Universal, $88.80; in Ilex Acme No. 3, $94.50; in Acme Synchro shutter, $127.35.	68.70
	8½"	f/4.5		Same as above; covers 5x8 film. In Ilex Universal, $108.20; in Ilex Acme No. 4, $113.90; in Acme Synchro shutter, $144.45.	101.70
	12"	f/6.3		Same as above; covers 8x10 film. In Ilex Universal, $115.90; in Ilex Acme No. 4, $121.60; in Acme Synchro shutter, $152.15.	109.40
	10"	f/4.5		Same as above; covers 6½x8½ film. In Ilex Universal, $153.50; also available in Ilexpo Studio shutter.	130.00
	12"	f/4.5		Same as above; covers 8x10 film. In Ilex Universal, $182.00.	175.90
	14¾"	f/6.3		Same as above; covers 11x14 film. In Ilex Universal, $200.40.	188.40
ILEX ENLARGING LENS	2"	f/4.5	f/32	Coated anastigmat lens; color corrected; barrel mount; iris diaphragm; Series C type; covers 1¼x1⅝ negative.	14.25
	3"	f/4.5	f/32	Same as above; covers 2½x2½ negative; Series S.	17.10
	3½"	f/4.5	f/32	Same as above; covers 2¼x3¼ negative.	18.20
	4¼"	f/4.5	f/32	Same as above; covers 2½x3½ negative.	26.20
	5"	f/4.5	f/32	Same as above; covers 3¼x4¼ negative.	35.90
	5½"	f/4.5	f/32	Same as above.	40.30
	6½"	f/4.5	f/32	Same as above; covers 4x5 negatives.	45.60
	7½"	f/4.5	f/32	Same as above; covers 5x7 negatives.	54.70
	8½"	f/4.5	f/32	Same as above.	89.20
KERN-PAILLARD **Dist.—PaillardProducts,Inc.**					
SWITAR	1"	f/1.4	f/22	In focusing mount for Bolex H-16; depth of field scale; click stops; coated.	183.75 Inc. F.E.T.
PIZAR	1"	f/1.5	f/22	Same as above; without depth of field scale.	97.00 Inc. F.E.T.
YVAR	15 mm	f/2.8	f/22	Same as above; wide angle.	78.75 Inc. F.E.T.
YVAR	3"	f/2.5	f/22	In "C" mount for 16 mm cameras; click stops; coated.	128.34 Inc. F.E.T.
SWITAR	½"	f/1.5	f/22	In "D" mount used on Bolex H-8; adaptable to Bolex L-8; depth of field scale; coated.	160.42 Inc. F.E.T.
YVAR	½"	f/2.5	f/22	Same as above, without depth of field scale, in "D" mount for direct use on Bolex L-8.	49.55 Inc. F.E.T.
	1"	f/2.5	f/22	Same as above; in "D" mount for Bolex H-8; adaptable to L-8.	68.25 Inc. F.E.T.
	1½"	f/2.8	f/22	Same as above; in focusing mount for Bolex L-8.	89.54 Inc. F.E.T.
KILFITT **Dist.—Peerless Camera Stores**					
KILAR	6"	f/3.5		Mounted in Kilfitt Reflex Prism Scope to provide eye-level groundglass focusing with Leica and Contax cameras; coated; image enlarged 4 times in finder; shutter release coupled to reflex mirror; for Leica, $274.50; for Contax	314.50
	12"	f/5.6		Same as above; for Leica, $314.50; for Contax.	354.50
	24"	f/5.6		Same as above; for Leica, $1,000; for Contax.	1,045.00
LEITZ					
SUMMARON	35 mm	f/3.5	f/22	Anastigmat lens for use with 35 mm cameras; rangefinder coupled for Leica; coated except outer surface; wide angle.	123.30 Inc. F.E.T.
ELMAR	50 mm	f/3.5	f/18	Anastigmat lens for general use with 35 mm cameras, enlarging, and projecting; highly corrected; coated; in collapsible mount; rangefinder coupled for Leica.	84.00 Inc. F.E.T.
SUMMITAR	50 mm	f/2	f/12.5	Same as above.	189.00 Inc. F.E.T.
SUMMARIT	50 mm	f/1.5	f/18	Same as above; in rigid, non-collapsible mount.	280.00 Inc. F.E.T.
SUMMAREX	85 mm	f/1.5	f/18	Same as above; high-speed telephoto.	472.50 Inc. F.E.T.
ELMAR	90 mm	f/4	f/36	Same as above; in light-weight chromium plated mount.	164.50 Inc. F.E.T.
LEICA	90 mm	f/4.5	f/45	American-made; construction optically and mechanically same as 90 mm Elmar lens; coated.	115.50 Inc. F.E.T.
	127 mm	f/4.5	f/45	Same as above.	171.50 Inc. F.E.T.
HEKTOR	135 mm	f/4.5	f/36	Imported; same as above.	236.60 Inc. F.E.T.
TELYT	200 mm	f/4.5	f/22	Telephoto; fitted in mirror reflex housing; coated except outer surface.	392.00 Inc. F.E.T.
MANSFIELD					
CINEPAR	2"	f/2.5	f/16	For 8-mm movie cameras except B&H and Eastman; 4x magnification; coated; fixed focus.	43.99 Inc. F.E.T.
PAM **Photographic Arts Mfg. Co.**					
PAM BRITAR, Anastigmat	105 mm	f/4.5	f/22	Anastigmat; rangefinder coupled for Leica or Kardon; click stops; coated; light weight.	89.50 Inc. F.E.T.
	105 mm	f/4.5	f/22	Same as above; for Kine Exakta.	69.50 Inc. F.E.T.
PLATAR	1½"	f/3.5	f/16	Anastigmat with screw mount for 8 mm movie cameras; depth of field scale; fixed focus.	24.95 Inc. F.E.T.
	1½"	f/3.5	f/16	Same as above; focusing mount.	33.50 Inc. F.E.T.
SCHNEIDER **Dist.—Burleigh Brooks Co.**					
XENAR	105 mm	f/3.5		General-purpose lens; coated; in Compur IS shutter.	82.40 Inc. F.E.T.
	150 mm	f/3.5		Same as above; in Compur II/5.	112.35 Inc. F.E.T.
	180 mm	f/3.5		Same as above; in Compound IV10/2.	170.35 Inc. F.E.T.
	210 mm	f/3.5		Same as above; in Compound IV10/2.	193.00 Inc. F.E.T.
	240 mm	f/3.5		Same as above; in Compound V/2.	231.82 Inc. F.E.T.
	300 mm	f/3.5		Same as above; in barrel with iris.	315.88 Inc. F.E.T.
	105 mm	f/4.5		Same as above; in Compur OS Rap.	47.02 Inc. F.E.T.
	150 mm	f/4.5		Same as above; in Compur IS.	77.13 Inc. F.E.T.
	180 mm	f/4.5		Same as above; in Compur II6/2.	110.47 Inc. F.E.T.
	210 mm	f/4.5		Same as above; in Compound III/7.	138.85 Inc. F.E.T.
	240 mm	f/4.5		Same as above; in Compound IV10/2.	187.85 Inc. F.E.T.
	270 mm	f/4.5		Same as above; in Compound IV10/2.	213.60 Inc. F.E.T.
	300 mm	f/4.5		Same as above; in Compound V/12.	252.41 Inc. F.E.T.
	360 mm	f/4.5		Same as above; in barrel with iris.	235.38 Inc. F.E.T.
TELE-XENAR	180 mm	f/4.5		Telephoto lens; coated; in Compur IS shutter.	160.32 Inc. F.E.T.
	240 mm	f/4.5		Same as above; in Compur II/5.	173.97 Inc. F.E.T.
	180 mm	f/5.5		Same as above; in Compur OS Rap.	69.22 Inc. F.E.T.
	240 mm	f/5.5		Same as above; in Compur IS.	107.25 Inc. F.E.T.
	270 mm	f/5.5		Same as above; in Compur II/5.	134.17 Inc. F.E.T.
	300 mm	f/5.5		Same as above; in Compur II6/2.	149.22 Inc. F.E.T.
	360 mm	f/5.5		Same as above; in Compound III/7.	183.55 Inc. F.E.T.
ANGULON	65 mm	f/6.8		Wide-angle lens; coated; in Compur OO Rap. shutter.	34.25 Inc. F.E.T.
	90 mm	f/6.8		Same as above; in Compur OS Rap.	58.15 Inc. F.E.T.
	120 mm	f/5.8		Same as above; in Compur IS.	83.25 Inc. F.E.T.
	165 mm	f/6.8		Same as above; in Compur II/5.	122.10 Inc. F.E.T.
	210 mm	f/6.8		Same as above; in Compound III/7.	139.42 Inc. F.E.T.

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Description	Price
SCHNEIDER—(Continued)					
COMPONAR	50 mm	f/4.5		Enlarging lens; coated; in focusing mount with iris.	$18.90 Inc. F.E.T.
	50 mm	f/4.5		Same as above; with Leica flange.	23.10 Inc. F.E.T.
	50 mm	f/3.5		Same as above; in mount with iris.	29.07 Inc. F.E.T.
	50 mm	f/3.5		Same as above; with Leica flange.	33.25 Inc. F.E.T.
	75 mm	f/4.5		Same as above; in mount with iris.	19.95 Inc. F.E.T.
	75 mm	f/3.5		Same as above.	31.50 Inc. F.E.T.
	120 mm	f/3.5		Same as above.	23.98 Inc. F.E.T.
	135 mm	f/3.5		Same as above.	36.93 Inc. F.E.T.
XENON	13 mm	f/1.5		High-speed lens for 8-mm movie cameras; coated, normal focal length.	103.25 Inc. F.E.T.
	25 mm	f/1.5		Same as above; 2x magnification.	92.93 Inc. F.E.T.
XENAR	45 mm	f/2.8		Same as above; 3x magnification.	68.78 Inc. F.E.T.
XENON	16 mm	f/1.9		For 16 mm movie cameras; coated; wide-angle.	115.33 Inc. F.E.T.
	25 mm	f/1.5		Same as above; normal focal length.	92.93 Inc. F.E.T.
	50 mm	f/2.3		Same as above; 2x magnification.	82.43 Inc. F.E.T.
TELE-XENAR	75 mm	f/3.8		Same as above; 3x magnification.	72.10 Inc. F.E.T.
	100 mm	f/3.8		Same as above; 4x magnification.	99.58 Inc. F.E.T.
	150 mm	f/4.5		Same as above; 6x magnification.	109.90 Inc. F.E.T.
SERVICE PHOTO SUPPLIERS, INC.					
WIDAX	7 mm	f/2.5		Wide angle lens for 8 mm movie cameras, fully corrected; all surfaces coated; doubles field of view obtained with standard ½" lenses; click stops; satin chrome.	39.95 Inc. F.E.T.
TAYLOR-HOBSON (See Bell & Howell)					
VOIGTLANDER Dist.—Willoughbys					
COLOR-SKOPAR	105 mm	f/3.5	f/16	Anastigmat; coated; in Compur shutter; covers 2¼x3¼.	52.50 Inc. F.E.T.
	135 mm	f/3.5	f/16	Same as above; covers 3¼x4¼.	122.50 Inc. F.E.T.
	150 mm	f/3.5	f/16	Same as above; covers 4x5.	140.00 Inc. F.E.T.
COLOR-HELIAR	21 cm	f/4.5	f/16	Anastigmat, coated; in Compound shutter; covers 5x7.	135.00 Inc. F.E.T.
	24 cm	f/4.5	f/16	Same as above; covers 6½x8½.	173.00 Inc. F.E.T.
	30 cm	f/4.5	f/16	Same as above; covers 8x10.	243.75 Inc. F.E.T.
WIRGIN Dist.—Camera Specialty Co.					
WIRGIN CINE LENSES	7 mm	f/2.5	f/22	For 8-mm movie cameras; anastigmat; coated; wide-angle.	39.50 Inc. F.E.T.
	1½"	f/3.5	f/22	Same as above; telephoto.	45.00 Inc. F.E.T.
	12½ mm	f/3.5	f/22	For 16 mm movie cameras; anastigmat; coated; wide-angle.	29.50 Inc. F.E.T.
WOLLENSAK					
RAPTAR, Series II, Anastigmat	90 mm	f/4.5	f/32	For high-speed photography; portrait, commercial, enlarging and copy work; coated; iris diaphragm; barrel mount; chrome finish; in Rapax shutter, $42.88 inc. tax; in Alphax shutter, $30.13; covers 2¼x3¼ film; in barrel mount.	35.00 Inc. F.E.T.
	101 mm	f/4.5	f/32	Same as above; covers 2¼x3¼ film; in Rapax, $43.74; in Alphax, $30.99; in barrel.	35.94 Inc. F.E.T.
	127 mm	f/4.5	f/32	Same as above; covers 3¼x4¼ film; in Rapax, $52.65; in Betax, $54.75; in barrel.	39.10 Inc. F.E.T.
	135 mm	f/4.7	f/32	Same as above; covers 4x5 film; in Rapax, $54.95; in Alphax, $48.95, in barrel with f/4.5 speed.	41.30 Inc. F.E.T.
	162 mm	f/4.5	f/32	Same as above; covers 4x5 film; in Rapax, $83.58; in Alphax, $76.33; in barrel.	64.98 Inc. F.E.T.
	7½"	f/4.5	f/32	Same as above; covers 5x7 film; in Alphax, $98.18; in barrel.	86.83 Inc. F.E.T.
	8¼"	f/4.5	f/32	Same as above; covers 5x8 film; in Alphax, $135.53; in barrel.	124.49 Inc. F.E.T.
	9½"	f/4.5	f/32	Same as above; covers 6½x8½ film; in Alphax, $180.66; in barrel.	169.63 Inc. F.E.T.
	11⅜"	f/4.5	f/32	Same as above; covers 8x10 film; in Alphax, $233.86; in barrel.	221.95 Inc. F.E.T.
RAPTAR TELEPHOTO, Anastigmat	8"	f/5.6	f/45	For still photography; Raptar formula; covers 2¼x3¼ and 3¼x4¼ films; black lacquer finish; specially designed for sports, news and architectural work; coated; 2½x linear magnification; in Rapax, $116.48; in barrel.	102.93 Inc. F.E.T.
	10"	f/5.6	f/45	Same as above; covers 3¼x4¼ and 4x5 films; in Alphax, $149.35; in Rapax, $156.60; in barrel.	138.00 Inc. F.E.T.
	15"	f/5.6	f/45	Same as above; covers 4x5 and 5x7 films; in Alphax, $209.41; in barrel.	198.38 Inc. F.E.T.
RAPTAR WIDE ANGLE, Anastigmat	65 mm	f/6.8	f/32	For interior, group, banquet and architectural work; where lighting is poor; coated; wide focusing aperture of f/6.8; taking apertures from f/11 to f/32; black lacquered brass mount; covers 3¼x4¼ film; in Rapax, $67.89; in Alphax, $55.14; in barrel.	60.09 Inc. F.E.T.
	90 mm	f/6.8	f/32	Same as above; covers 4x5 film; in Alphax, $58.30; in Rapax, $71.05; in barrel.	63.25 Inc. F.E.T.
	4¼"	f/6.8	f/32	Same as above; covers 5x7 film; in Alphax, $77.41; in Rapax, $83.41; in barrel.	69.86 Inc. F.E.T.
EXTREME WIDE ANGLE, Series IIIa	90 mm	f/12.5	f/32	For extreme wide-angle work in still photography; coated; anastigmat; covers 4x5 film; in Rapax, $48.63; in Alphax, $35.88; in barrel.	40.83 Inc. F.E.T.
	4⅜"	f/12.5	f/32	Same as above; covers 5x7 film; in Rapax, $59.26; in Alphax, $53.26; in barrel.	45.71 Inc. F.E.T.
	6¼"	f/12.5	f/45	Same as above; covers 8x10 film; in Rapax, $81.85; in Alphax, $74.60; in barrel.	63.25 Inc. F.E.T.
PORTRAIT VERITAR	10"	f/6		Soft focus lens for portraiture; in barrel.	103.21 Inc. F.E.T.
				Same as above; in Alphax.	114.85 Inc. F.E.T.
	14"	f/8		Same as above; in barrel.	152.50 Inc. F.E.T.
				Same as above; in Alphax.	158.13 Inc. F.E.T.
				NOTE: All Wollensak shutters are available with built-in synchronization at a slight additional charge over prices given.	
CINE-RAPTAR, Anastigmat	13 mm	f/1.9	f/16	For 8 mm movie cameras; in chrome plated focusing mount, coated lens.	45.71 Inc. F.E.T.
	13 mm	f/1.9		For 8 mm cameras; in chrome plated fixed focus mount; coated lens.	25.88 Inc. F.E.T.
	1"	f/1.5		Same as above; click stops; depth of field scale; for 16 mm cameras.	91.43 Inc. F.E.T.
	1"	f/1.9	f/22	For 16 mm cameras; focusing mount.	57.21 Inc. F.E.T.
	2"	f/1.9	f/16	Same as above.	94.88 Inc. F.E.T.
	2"	f/1.5		For 16 mm cameras; in focusing mount; click stops, depth of field scale.	126.50 Inc. F.E.T.
CINE-RAPTAR TELEPHOTO	1"	f/2.5	f/16	Anastigmat, coated; for 8 mm movie cameras; chrome focusing mount.	49.16 Inc. F.E.T.
	1½"	f/3.5	f/22	Same as above.	43.13 Inc. F.E.T.
	1½"	f/3.5		For 8 mm movie cameras; chrome plated fixed focus mount; coated.	25.88 Inc. F.E.T.
	2"	f/3.5	f/16	Same as above in focusing mount for 16 mm cameras.	54.63 Inc. F.E.T.
	3"	f/4	f/32	Same as above.	63.25 Inc. F.E.T.
	4"	f/4.5	f/32	Same as above.	69.00 Inc. F.E.T.
	6"	f/4.5	f/32	Same as above.	94.88 Inc. F.E.T.
	9 mm	f/2.5		For 8 mm cameras; in fixed focus mount; coated lens.	43.13 Inc. F.E.T.
CINE-RAPTAR WIDE-ANGLE	17 mm	f/2.7	f/16	For 16 mm movie cameras; coated, anastigmat; in chrome focusing mount.	55.42 Inc. F.E.T.
	17 mm	f/2.7		For 16 mm movie cameras; coated in chrome plated fixed focus mount.	28.18 Inc. F.E.T.
ENLARGING RAPTAR	2"	f/4.5	f/22	Anastigmat; coated; screw, barrel mount; iris diaphragm chrome plated; markings based on physical measurements.	21.56 Inc. F.E.T.
	3"	f/4.5	f/32	Same as above; covers 2¼x2¼ negative.	24.73 Inc. F.E.T.
	3½"	f/4.5	f/32	Same as above; covers 2¼x3¼ negative.	27.31 Inc. F.E.T.
	4"	f/4.5	f/32	Same as above.	31.63 Inc. F.E.T.
	5"	f/4.5	f/45	Same as above; covers 3¼x4¼ negative.	37.95 Inc. F.E.T.
	5 5/16"	f/4.5	f/32	Same as above; covers 4x5 negative.	41.40 Inc. F.E.T.

POPULAR

PHOTOGRAPHY

$25,000.00*

Enter Today

Get those prize-winning pictures in right away. Every one of your entries has a chance for one of the big 280 Savings Bond awards—the many trophies—the plaques—the certificates. Enter today. Use the official entry blank on the adjoining page. Final closing date is July 15, 1950. Prize-winners will be announced in the December 1950 issue. Grand opening exhibition of prize-winning pictures to be held in New York City. Traveling exhibits for international showings in principal cities of the world.

HERE ARE THE RULES

(1) The Contest is open to all persons, except employees of POPULAR PHOTOGRAPHY, Ziff-Davis Publishing Company, and their families. CONTEST OPENS MARCH 10 AND CLOSES JULY 15, 1950. No entry fee is required.

(2) There will be a Black-and-White Division and a Color Division; each will be judged separately. Any number of black-and-white prints, color prints, or color transparencies may be submitted by any entrant, in conformity with the following regulations: Color prints and/or transparencies must be submitted separately from black-and-white entries. There are no restrictions as to subject matter or size, in either Division, although 5x7 or larger prints are preferred. No acknowledgment of receipt of entries will be sent, unless entrants enclose an addressed postal card to be signed and returned.

(3) Prints may be either mounted or unmounted; this is optional with entrants.

(4) Hand-colored black-and-white prints (tinted with oil-paints, water-color, pastel, etc.) are not eligible as Contest entries; however, chemically-toned prints are acceptable.

(5) Pictures which have been published in, or accepted for publication or under consideration by any other photographic magazine, are not eligible. Publication in any other medium does not make prints or color transparencies ineligible.

(6) Each print or transparency must have secured to it a filled-in entry blank as provided here, or facsimile thereof. Please print or type-write the information requested on the blank. Additional entry blanks are obtainable from photo dealers and finishers, or direct from the Contest Editor of POPULAR PHOTOGRAPHY if request is accompanied by a self-addressed and stamped envelope.

(7) All prints and transparencies will be held for judging after July 15, 1950, and no entries will be returned until after announcement of the winners has been published in the December, 1950 issue of POPULAR PHOTOGRAPHY. Pictures which did not win prizes will then be returned as quickly as possible, provided that self-addressed and stamped envelope, or addressed label and postage, were contained in the same package in which each lot of entries was sent. Do not send postage separately for return. The Contest Editor cannot enter into correspondence of any kind regarding entries.

(8) Prize-winning prints and transparencies, including all reproduction and promotional rights, become the exclusive property of POPULAR PHOTOGRAPHY. All entrants who win prizes will be required to furnish original negatives before prizes are given. All prize-winning negatives become the exclusive property of POPULAR PHOTOGRAPHY.

(9) Judges in the Contest will be the editors of POPULAR PHOTOGRAPHY. Their decisions will be final. In the event of a tie, duplicate prizes will be awarded.

(10) Address all entries to Contest Editor, POPULAR PHOTOGRAPHY, 185 North Wabash Avenue, Chicago 1, Illinois. Final entries must be postmarked not later than midnight of July 15, 1950. Prize-winners will be announced in the December, 1950 issue of POPULAR PHOTOGRAPHY.

(11) While exercising the utmost care in handling entries, POPULAR PHOTOGRAPHY assumes no responsibility for loss or damage of Contest entries.

(12) Prizes will be United States Savings Bonds, Series E. Values of prizes listed are maturity values of the Bonds. Prize-winners who are not United States citizens will receive, in lieu of Bonds, a check in the amount of the purchase price of the Bond award.

FINAL CLOSING DATE JULY 15, 1950

PICTURE CONTEST

* In United States Savings Bonds (Series E) plus Trophies and Certificates of Award

HERE ARE THE PRIZES

280 PRIZES

Black-and-White		Color		Total
1st U. S. Savings Bond plus Trophy	$2,000	1st U. S. Savings Bond plus Trophy	$2,000	$ 4,000
2nd U. S. Savings Bond plus Trophy	1,000	2nd U. S. Savings Bond plus Trophy	1,000	2,000
3rd U. S. Savings Bond plus Trophy	750	3rd U. S. Savings Bond plus Trophy	750	1,500
4th U. S. Savings Bond plus Plaque	500	4th U. S. Savings Bond plus Plaque	500	1,000
5th U. S. Savings Bond plus Plaque	250	5th U. S. Savings Bond plus Plaque	250	500
50 Prizes, U. S. Savings Bonds, each	100	50 Prizes, U. S. Savings Bonds, each	100	10,000
70 Prizes, U. S. Savings Bonds, each	50			3,500
100 Prizes, U. S. Savings Bonds, each	25			2,500
				$25,000

* In the event of a tie, duplicate prizes will be awarded.

HERE IS YOUR ENTRY BLANK

* Values given are maturity values of the bonds. Bonds will be delivered in denominations requested by prize winners. Each prize will be accompanied by a certificate of award suitable for framing. This certificate is printed on fine parchment stock and will bear the hand-lettered name of the winner.

USE THIS ENTRY BLANK.—Each one of your entries must be accompanied by a filled-in entry blank provided here, or a facsimile of it. Your photo dealer or your finisher has additional blanks on hand should you need them; or you can obtain entry blanks from the Contest Editor of POPULAR PHOTOGRAPHY. Your request for more blanks should be accompanied by a self-addressed stamped envelope.

USE THIS ENTRY BLANK (PLEASE PRINT) 1950

Contest Editor, POPULAR PHOTOGRAPHY
185 N. Wabash Ave., Chicago 1, Ill.

Please enter the enclosed picture in the POPULAR PHOTOGRAPHY Picture Contest for 1950.

Name.....

Street.....

Town.....Zone.....State.....

Picture Title.....

Where Made.....

Camera Used.....Lens.....

Exposure: Lens stop.....Shutter Speed.....

Film Used.....Filter.....

Lighting.....Paper.....

Published before in.....

PHOTOGRAPHIC LENSES—Continued

Manufacturer or Distributor and Name	Focal Length	Speed	Stops Down to	Purpose and Descriptio	Price
WOLLENSAK—ENLARGING RAPTAR—(Continued)	6 ⅜"	f/4.5	f/32	Same as above.	$55.78 Inc. F.E.T.
	7 ½"	f/4.5	f/45	Same as above; covers 5x7 negative.	77.63 Inc. F.E.T.
	8 ¼"	f/4.5	f/32	Same as above; covers 5x8 negative.	110.69 Inc. F.E.T.
	9 ½"	f/4.5	f/32	Same as above; covers 6 ½x8 ½ negative.	140.88 Inc. F.E.T.
ZEISS **Dist.—Carl Zeiss, Inc.** TESSAR, Anastigmat	2"	f/2.7		Four element; coated, iris diaphragm; available in compur shutter; covers ¾x1 film; barrel mount.	Upon Request
	7"	f/2.7		Same as above; covers 4 ¾x6 ½ film.	
	2"	f/2.8		Same as above; covers 1 1/16x1 5/16 film	
	2 ⅜"	f/2.8		Same as above.	
	3"	f/2.8		Same as above; covers 1 ¾x2 5/16 film.	
	3 ⅛"	f/2.8		Same as above; covers 2 ¼x2 ¼ film.	
	2"	f/3.5		Same as above; covers 1 1/16x1 5/16 film.	
	2 ⅜"	f/3.5		Same as above; covers 1 1/16x1 5/16 film.	
	3"	f/3.5		Same as above; covers 1 ¾x2 5/16 film.	
	3 ⅛"	f/3.5		Same as above.	
	4 ⅛"	f/3.5		Same as above; covers 2 ½x3 ½ film.	
	4 ¼"	f/3.5		Same as above.	
	5 ¼"	f/3.5		Same as above; covers 3 ¼x4 ¼ film.	
	6"	f/3.5		Same as above; covers 4x5 film.	
	6 ½"	f/3.5		Same as above; covers 4x6 film.	
	8 ¼"	f/3.5		Same as above; covers 5x7 film.	
	10"	f/3.5		Same as above; covers 5x8 film.	
	12"	f/3.5		Same as above; covers 6 ½x8 ½ film.	
	1 ½"	f/4.5		Same as above; covers 1 ½x1 ¼ film.	
	2"	f/4.5		Same as above; covers 1 ¼x1 ½ film.	
	2 ¼"	f/4.5		Same as above; covers 1 ¾x1 ¾ film.	
	2 ½"	f/4.5		Same as above; covers 1 ¾x2 film.	
	3"	f/4.5		Same as above; covers 2 ⅜x2 ⅜ film.	
	3 ½"	f/4.5		Same as above; covers 2 ¼x3 ¼ film.	
	4 ⅛"	f/4.5		Same as above; covers 2 ½x3 ½ film.	
	4 ½"	f/4.5		Same as above.	
	5 ¼"	f/4.5		Same as above; covers 3 ¼x4 ¼ film.	
	6"	f/4.5		Same as above; covers 4x5 film.	
	6 ½"	f/4.5		Same as above; covers 4x6 film.	
	7"	f/4.5		Same as above; covers 4 ¾x6 ½ film.	
	8 ¼"	f/4.5		Same as above; covers 5x7 film.	
	10"	f/4.5		Same as above; covers 5x8 film.	
	12"	f/4.5		Same as above; covers 6 ½x8 ½ film.	
	14"	f/4.5		Same as above; covers 6 ½x8 ½ film.	
	16"	f/4.5		Same as above; covers 6 ½x8 ½ film.	
	20"	f/4.5		Same as above; covers 8x10 film.	
	3"	f/6.3		Same as above; covers 2 ⅜x2 ⅜ film.	
	3 ½"	f/6.3		Same as above; covers 2 ¼x3 ¼ film.	
	4 ⅛"	f/6.3		Same as above; covers 2 ½x3 ½ film.	
	5 ¼"	f/6.3		Same as above; covers 3 ¼x4 ¼ film.	
	6"	f/6.3		Same as above; covers 4x5 film.	
	6 ½"	f/6.3		Same as above; covers 4x6 film.	
	7"	f/6.3		Same as above; covers 4 ¾x5 ½ film.	
	8 ¼"	f/6.3		Same as above; covers 5x7 film.	
	10"	f/6.3		Same as above; covers 5x8 film.	
	12"	f/6.3		Same as above; covers 6 ½x8 ½ film.	
	14"	f/6.3		Same as above; covers 8x10 film.	
	24"	f/6.3		Same as above.	
ZOOMAR CINE-BALOWSTAR	1 ½"	f/1.3	f/11	For 8 and 16-mm movie cameras; fully corrected for high resolution at any stop; iris diaphragm; calibrated in f- and T-stops; adapters available to fit most cameras.	199. Inc. F.E.T.
	3 ½"	f/1.3	f/11	Same as above, but for 16-mm cameras only and available in "C" mount only.	606. Inc. F.E.T.
WIDE-ANGLE BALOWSTAR	15 mm	f/1.2	f/11	Wide-angle lens for 16 mm cameras; high speed; flat field; Kodak type mount; iris diaphragm.	Upon Request
ZOOMAR VARIFOCAL		f/3.9	f/22	For 16-mm cameras only; focal length continuously variable during use from 32 mm to 100 mm and from 16 mm to 50 mm; interchangeable wide-angle and telephoto front lens; zoom is obtained by lateral movement of one set of lenses within another; factory installation recommended.	1,410. Plus Tax
SUPER ZOOMAR VARIFOCAL		f/2.5	f/16	Similar to above; improved type; focal length from 23 mm to 104 mm; equipped with five ultra-short range adapters and filter holder; factory installation recommended.	Upon Request

LIGHT FILTERS

Manufacturer or Distributor and Name	Lens Dia., or Size	Type of Mount	Description and Colors	Prices Mtd.	Prices Unmtd.
ACRA INSTRUMENTS DIV. **Pacific Universal Products** Acra-coted	19-51mm	.....	Round and special shapes; dyed film between glass, coated optical glass, mounted in metal rings. Colors: K-2, yellow; G, orange; 23-A and 25-A, red; X-2, green; 2A, haze. Conversion filters: Type A85, Photoflood No. 80, and Ansco Nos. 10, 11, and 12. Compensating filters: CC13, 14, and 15. Ultra violet filters: CC95 (Ektachrome), UV15, UV16, and UV17 (Ansco Color).	$1.95-3.45	
ANSCO Ansco Color Film Filters	19-51mm	.....	Round, gelatin between glass, mounted. Conversion No. 10 for exposing daylight-type Ansco Color film under 3200K. Conversion No. 11 for exposing tungsten, type Ansco Color film under daylight. Ultra violet absorbing UV16 and UV17.	2.10-3.10	
Glass Mounted Filters	20.3-23.3mm	Slip-on	Round, gelatin between glass. Colors: Yellow, light, medium, dark, green, and red.	1.85-2.35	
Color Film Filter Foils	2x2"-4x4"	.....	Square; for use over camera lens when exposing Ansco Color film. Color Compensating filters: Yellow, Nos. 23, 24, 25; Magenta Nos. 33, 34, 35, 36; Cyan Nos. 43, 44, 45; Conversion filters No. 10 and 11 used as detailed above, and No. 12 for exposing tungsten-type Ansco Color film under electronic flash; Ultra violet absorbing filters UV15, UV16, UV17. Sets containing 11 filters available.		$ .60-2.62
AREL, INC. Kent Filter Kits	19-35mm	Screw-in	Round; optical glass, lens shade combination; for various Eastman, Bell & Howell, Revere, and Keystone movie cameras, Argus and Mercury still cameras. Colors: yellow, green, red, haze. Type A, Chrome Flash, and blue. Kit has 6 filters, and lens shade.	5.95-9.95	

LIGHT FILTERS—Continued

Manufacturer or Distributor and Name	Lens Dia., or Size	Type of Mount	Description and Colors	Prices Mtd.	Prices Unmtd.
ARGUS, INC.					
Argus Optical Glass Filters	18-42 mm	Slip-on	Round; optical glass, lens shade combination; available in special purpose rings. Colors: Yellow, light, dark; green; red; haze, and Type A for all color films.	$2.60-3.25	$1.60-1.90
BELL & HOWELL CO.					
B & H	12.5-37.5 mm	Screw-in	Round; optical glass; for B&H lenses: 12 ½mm f 3.5 Anate, 12 ½mm f 2.5 Mytal, 12 ½mm f 2.5 Anate, 12 ½mm f 2.5 Anart, 0.5" f 2.8 Anate, 0.5" f 2.5 Comat, 0.5" f 1.9 Super Comat, 0.5" f 1.4 Ivotal, 17mm f 2.7 Ansix, 0.7" f 2.5 Super Comat, 1" f 3.5 TTH, 1" f 2.7 TTH, 1" f 2.7 Amsix, 1" f 2.5 Ansix, 1" f 2.5 Comat, 1" f 1.9 Dotal, 1" f 1.9 Lumax, 1" f 1.9 (T-2.1) Super Comat, 1" f 1.5 Kinic, 1.5" f 3.5 Telate. Colors: Yellow, Kodachrome Type A, Kodachrome Haze.	6.42-8.46	
LOU BERTZ					
Addocolor	2x2", 2¼x2¼"	See Col. 4	Gelatin squares added as a permanent part of glass or readymount mount for transparencies. Colors: Yellow, Cyan, Magenta, Red, Green, Blue. Used as color correcting filters for color slides AFTER processing. Packed in sets of 24, four each of six colors.		.65-.95
E. A. BIRCH-FIELD LAB.					
Varisco A Variable Contrast	⅝-1 inch	.....	Round; gelatin on acetate film; for contrast control of Varigam paper; placed between the lens in enlarger. Colors: Yellow, Red, Purple. Proportions of colors varied by adjustment of lens diaphragm.		3.00
BURLEIGH BROOKS CO.					
Optochrom	19-58 mm	Slip-on	Round, dyed optical glass. Colors: Yellow, extra light, light, medium, dark; Yellow-Green, light, medium; Ultra Violet; Blue; Red; Reform (sky, expiration).	2.40-11.25	
Optochrom Filter Sets	25-42 mm	.....	Filters in filter holder, slip-on, or special mounts. Set A (one each) Yellow, light, medium; Ultra Violet. Set B (one each) Yellow-Green, light, medium; Blue. Set C (one each) Yellow, medium; Yellow-Green, light; Red. Prices on request.		
CHESS-UNITED CO., INC.					
Chess-United	All still & movie	See Col. 4	Round; optical glass; chrome finish mount; available for slip-on, screw-in, and special mounts; lens shade combination. Colors: Yellow, light, medium, dark; Yellow-Orange; Red, light, medium, dark; dark Infra Red; Chrome-Haze; ChromeA; ChromeBlue; ChromeFlash; Green, light, medium; Neutral, light, medium.	1.95-3.95	1.35-5.00
Chess-United Educational Filter Kits	See Col. 4	See Col. 4	Contains lens shade, 3-compartment case, light yellow, and light green filters. —1 diopter portrait lens. For Beacon, Brownie Reflex, Rediflex, Fed-Flash, Duaflex, and Vigilant, Jr. cameras.	4.95	
EdnaLite	All still & movie	See Col. 4	Round, optical glass-coated on both sides; series filters mounted in shock-proof rim available for slip-on, screw-in, and special mounts; lens shade combination. Same colors available as the Chess-United filters.	2.75-5.25	1.85-7.50
EdnaLite Cine Filter Turret	Movie cameras	See Col. 4	Combination 5-position filter turret and lens shade; round, coated optical glass. Colors: ChromeA; ChromeBlue; ChromeHaze; Yellow, medium; Red, medium.	17.50	
CURTIS LABORATORIES, INC.					
Curtis Color Balance	19-52 mm 2x2"-3x3"	.....	Round and square; gelatin between optical glass; for sensitometric correction to color film where needed; not designed for use as color compensating filters.		5.00-9.00
E. I. DU PONT DE NEMOURS					
Varigam"	2x2"	Card	For contrast control of "Varigam" paper; square gelatin; 10 colors ranging from yellow through yellow-blue mixtures to blue. Set 3A (1, 3, 5, 7, 10). Set 5B (2, 4, 6, 8, 9) and Set 10C (all); sets include special metal Universal filter holder.	Single 3.03-5.23	
EAGLE PHOTO SUPPLY					
Eagle Ray	1⅛"-4½"	Slip-on	Round; medium rapid filter; requires 3 times normal exposure; corrected to admit all the bright visual colors and the more chemically active colors.	1.65-8.55	
Royal Ray	15/16"-4½"	Slip-on	As above; requires 8 times increase of exposure.	1.65-8.55	
Royal Foreground Ray Style A	⅞"-4½"	Slip-on	Round; graduated from strong Orange-Yellow to transparent; for use as Sky filter and also in photographing objects more strongly lit on one side than on the other.	2.00-8.00	
Style B	15/16"-3"	Slip-on	As above; mounted in sliding oblong frame so as to bring any desired depth of color in front of the lens.	1.50-3.75	
EASTMAN KODAK CO.					
Wratten Light Filters	⅞"-5"	Slip-on, screw-in, or unmounted	Lacquered gelatin, gelatin cemented in "B" glass or in "A" glass, round or square. Over 100 types, including: Yellow, K2, G; Yellow-Green, X1; Green, B; Blue, C5; Red, A; Color-Separation; Neutral Density, etc.		
Kodak Skylight Filter (Wratten No. 1A)	⅝"-3¼" 2x2", 3x3"	Slip-on, screw-in, or unmounted	Used with daylight-type color films for improved rendering in open shade or other bluish daylight conditions.		
Kodak Light Balancing Filters (Wratten No. 81-81M, 82-82C)	1⅛"-2" 2x2", 3x3"	Slip-on or unmounted	Eight Yellowish (No. 81 series) and 4 Bluish (No. 82 series) for exposing artificial-light color films. Effective color temperature lowered or raised, respectively, in steps of about 100 K.		
Kodak Color Compensating Filters	1⅛"-2" 2x2", 3x3"	Slip-on or unmounted	Used for color balance and light source correction with color films. Yellow, Magenta, Cyan, Red, Green, and Blue series of six filters each, densities .05, .10, .20, .30, .40, and .50.		
ENTECO INDUSTRIES, INC.					
Enteco Light Filters	16-76 mm	See Col. 4	Round; optical glass; coated and uncoated; dural mounted in series sizes IV, V, VI, VII, VIII, IX. Fit in all standard mounts plus Enteco screw-in, slip-on and set-screw adapters. Colors: Yellow, light, medium; Red; Green, light, medium; Orange; Haze; Skylight; Photoflood; Colorflash; Type A; Conversion, 10, 11, 12, UV15, UV16, UV17.	1.85-5.25	
Enteco Thin Filters	16-84 mm	See Col. 4	Round; optical glass; coated and uncoated; mounted in sizes from 16 mm to 84 mm in some colors and to fit some mounts as above.	1.35-3.25	
Enteco Filter Kits	See Col. 4	See Col. 4	Kits of four filters, for black-and-white or color; coated or uncoated. In sizes for Series IV, V, VI, VII, VIII, IX, and 21.5, 31.5, 39, and 51 mm.	2.45-12.25	
FALBROOK PHOTO SUPPLY					
Falco	15-108 mm	.....	Round; optical glass, lens shade combination; for Revere, Argus, Mercury II, Kodak models 60, 90, 20, and 25, Wollensak lenses; Colors: all densities, Yellow, Red, Green, Orange, Infra Red, Blue Type A, Haze, chrome flash.	1.25-1.50	.75-12.50
Falco Filter Kits	.....	.....	For all movie cameras and 35-mm miniatures; kit includes lens shade, wallet-type case containing yellow, green, red, haze, Type A, Kodachrome blue.	5.95	
GALLINGER BROS., INC.					
G. B. Filters	31.5-19 mm	.....	Round and square, optical glass, round filters mounted in rings. Colors: Yellow, light, medium; Red; Green; Orange; Haze; Blue. Available in leather-cased set of 4.	1.25-1.50	.80-2.00
C. P. GOERZ AMERICAN OPTICAL					
Panortho	21-61 mm	Slip-on	Round, optical glass, lens shade combination, mounted filters up to 42mm; unmounted up to 61mm; any color set acceptable for selection. Colors: Pale Yellow, U.V., Yellow, POI, POII, Green, POI, POII, Blue (compensating); Red (contrast), Orange. Desired combination obtained by stacking the individual cells.	2.50-3.75	1.50-7.50
HARRISON & HARRISON					
Duraline for Argus & Movie	See Col. 4	Screw-in	Two pieces of optical glass laminated together with cementing plastics which carries the color. Available in all standard filter colors; also color-correcting colors. For Argus C2, C3, and movie lenses.	3.51	
Metal-Bound	19-52 mm	.....	As above, mounted in metal band; available in all standard filter colors for black-and-white photography.	1.70-4.65	

(Continued)

LIGHT FILTERS—Continued

Manufacturer or Distributor and Name	Lens Dia., or Size	Type of Mount	Description and Colors	Prices Mtd.	Prices Unmtd.
HARRISON & HARRISON					
Color Correcting C & B	19-52 mm	.....	Same type as above, available in numerous types for use in correction of various phases of sunlight for normal rendition on color film; also for correction daylight film for indoor use, and vice versa.		$1.70-4.65
Filter Sets	.....	.....	Available for color, black-and-white, or combination. Sets contain 3 to 6 filters.		5.10-26.60
Light Corrector Sets	See Col. 4	.....	Available in round, 19 to 52mm size, or 2x2", and 3x3" squares; includes meter.		59.-127.
HEITZ & LIGHTBURN					
Pignons	30-46 mm	Slip-on	Round, optical glass, designed for Alpa Reflex camera and its interchangeable lenses. Colors: Yellow, light, medium, and dark; Orange, light, medium, dark; Green, medium; Yellow Green; Ultraviolet; Blue, light; Red, light, medium.	$2.70-6.60	
KIN-O-LUX, INC.					
Marks Polarator	19-42 mm	Screw-in	Neutral polar screen to eliminate unwanted glare and reflection; lens shade combination.	5.95-6.95	
	15 mm	Slip-on	Same as above; for movie cameras; lens shade combination.	3.75	
E. LEITZ, INC.					
Leica	34 mm	Slip-on	Round, optical glass, for 28 mm, 35 mm, and 50 mm Hektor, Elmar, and Summar lenses; all 90 mm, 127 mm, and 137 mm lenses. Colors: Yellow 1, 2; Green 1, 2; Orange-Red; Infra-Red 1, 2, 3; Kodachrome Haze; Kodachrome Type A; Kodachrome Photoflood, and Chrome Flash.	7.77-8.68	4.83-5.78
	50 mm	Screw-in	Same as above.	7.28-7.77	
	28-135 mm	Slip-on	Round, optical glass, polarizing filters; black mount; filter rotates in collar which pivots on clamping ring.	31.92-33.92	
			Adapters for above filters to fit Rolleiflex-Rolleicord and Contax cameras.		4.20
MANSFIELD INDUSTRIES					
Raydex	17-150 mm	.....	Round, optical glass, lens shade combination. Colors: Yellow, light, medium, dark; Red; Green, Orange, light, medium, dark; Type A conversion; Haze; Kod. Blue, Chrome Flash. Available in kits for various miniature and movie cameras.	1.75-2.75	.85-2.25
MILLER OUTCALT					
Mil-O	19-50.5 mm	.....	Round, optical glass, metal bound. Colors: Yellow, medium; Red, light, medium; Green, light; Orange; Haze; Mil-O Nos. 10, 11 (Ansco) UV15, UV16, UV17; Type A Conversion; Blue; 2A; CC13; CC95; CC15.	1.50-3.25	
OPTEX CORP.					
Optex	27-55 mm	.....	Optical glass, beveled. Colors: Yellow, light, medium, dark; Green, light, medium; Orange; Red, light, medium; U.V. Sets of above and sets for tricolor work available. Prices on request.	[illegible]-3.00	
PHOTO RESEARCH CORP.					
Spectra CT	21.5-50.5 mm	See Col. 4	Round, gelatin between optical glass, coated. Color correcting filters. Colors: Blue, six filters, from CT-1 to CT-6; Reddish-yellow, six filters, from CT-10 to CT-60. Mounted in metal anodized in color to match color of filter.		
			Individual filters.	2.75-4.50	
			Set of 12 filters.	33.00-54.00	
PIONEER SCIENTIFIC					
Polaroid	See Col. 4	See Col. 4	Round, acetate between glass, designed to fit most 8mm and 16mm movie cameras, and still miniature cameras; neutral and yellow polarizing; mounted in lens shade on which is indicated the axis of the filter and 180° scale marking; 22 different sizes.	5.28-6.12	
	19-52 mm	Unmounted	Round, acetate between glass. Neutral and yellow Polarizing filters. In series V, VI, VII, VIII, also in 2.2mm thickness, from 21.5 to 51 mm.		5.28-13.50
PONDER & BEST					
PB Filters	19-50.5 mm	.....	Round, optical glass; polished edges; lens shade combination; fits Series V, VI, VII, adapter rings. Colors: Yellow; Orange; Red; Green; Haze.		1.95-4.15
PB Conversion Filters	19-50.5 mm	.....	Round, gelatin between glass; lens shade combination; same size as above. C4 (Kodachrome Type A to Daylight); UV2 (Kodachrome Type B and Ansco Color Tungsten with flash; C5 (Tungsten to Daylight); B2 (for Flash); B4 (for Flood).		1.75-2.95
PB Filter Kits	See Col. 4	.....	Ten kits available for Argus A, C-2, C-3; Argoflex; Kodak Bantam; Kodak 35, Mercury II; Leica; Perfex; kit includes lens shade and filter holder. Yellow, medium; Red, medium; Haze, Type A conversion.	8.95	
PB Movie Kits	.....	.....	Ten kits available for various 8 and 16mm cameras; kit includes lens shade, filter holder, Haze and Type A conversion filters, and pouch.	4.95	
PB Colorfilm Kits	19-31.5 mm	.....	Nine kits containing lens shade and filter holder (Series V, and 31.5 filters) Haze and Type A filters, filter pouch. For same cameras as the PB Filter Kit.	5.50	
SEARS, ROEBUCK & CO.					
Tower	19-42 mm	.....	Round, optical glass; lens shade combination. Colors: Yellow, medium; Orange; Red.	1.95	
SPIRATONE					
Spiratone	21.5-50.5 mm	See Col. 4	Round, optical glass. Colors: Yellow, medium; Green, medium; Orange; Red, medium; Blue Photoflood; Type A; Haze. Also available in sets with lens shade combination.	1.00-1.90 4.95	.75-.95
TIFFEN MFG. CO.					
Cine and Mini Mounted Filters	See Col. 4	See Col. 4	Round; dye between optical glass; slip-on and screw-in mounts for all movie cameras, movie lenses, and miniature cameras. Colors: Yellow, medium; Red, light; Green, light; Orange; Type A; Blue Photoflood.	2.40	
Photar	See Col. 4	See Col. 4	Round; dye between optical glass, slip-on, screw-in, lens shade combination and bayonet mounts. For all cameras and lenses. Colors: Yellow, light, medium; Red, light; Green, light; Orange; Haze, No. 1; No. 2-A; Type A; Blue Photoflood Conversion filters: 10, 11, 12, UV15, UV16, UV17, CC13, CC14, CC15, CC95. Daylight Flash 2-B. Available coated and uncoated. Filter kits also available.	1.35-10.00	
TIKERN CORP.					
Tikern Optical Glass Filters	19-51 mm	.....	Round, optical glass. Colors: Yellow, light, medium; Green, light, medium; Orange; Red; Haze; Photoflood.		1.00-3.00
			Filter kit containing Yellow, medium; Green, light, and Red.		2.90-8.10
			Filter kit containing Yellow, medium; Green, light; Red, and Orange.		3.75-10.50
Tikern Lumenite	19-50.5 mm	.....	Round, plastics between glass. Colors: UV15, UV16, UV17; Conversion filters, Nos. 10, 11; Type A; Photoflood; Ultra-Violet Nos. 2A; CC-95; CC-15; all standard colors.	1.70-3.50	
			Kodachrome Type Kit with Type A; Haze, and Photoflood filters.	6.95-9.75	
			Ansco Color Type Kit with UV16, Conversion filters Nos. 10, 11.	6.95-9.75	
			Black & White Kits with either 3 or 4 filters; Yellow, medium; Green, light; Red; the fourth filter is Orange.	6.95-12.50	
Tikern Movie Kits	See Col. 4	.....	For most 8mm movie cameras. Kodachrome Type Kit has Type A; Photoflood, Haze. Black & White Kit has Yellow, Green, Red, and Orange filters.	3.50-4.50	
WOLLENSAK OPTICAL CO.					
Wollensak Color Filters	See Col. 4	Screw-in	Round, optical glass; to fit all 8 and 16mm Wollensak Cine lenses. Colors: Yellow; 2X, 4X; Red; Haze; Neutral Density; Type A daylight filter for Kodachrome.	2.50-3.70	

FRONT (SUPPLEMENTARY) LENSES

Manufacturer or Distributor	Type	Fits Lens Mount	Slip-on or Screw-in	Purpose	Price
ARGUS, INC.					
Argus Portrait	Positive	18-42 mm	Slip-on	Portrait attachment of +1 diopter metal ring mounted. Series V, VI.	$1.75-$2.60
Argus Copy	Positive	18-42 mm	Slip-on	Copy attachment of +2 diopter metal ring mounted. Series V, VI.	1.75- 2.60
BELL & HOWELL					
Widor	Positive	See Col. 5	Screw-in	For 8 mm movie lenses—12½ mm f 3.5 Anate; f 2.5 Anart and Anate; 1" f 2.5 Ansix. Doubles angle of view.	36.50
CAMERA SPECIALTY					
Wirgin Telor Telephoto	Negative	See Col. 5	Screw-in	Telephoto for 8 and 16mm cameras; 10 models for various lens mounts; 2x magnification, micrometer focusing mount.	29.50
Wirgin Cine Amplon	Positive	See Col. 5	Screw-in	Wide-angle for 8 and 16mm cameras; 13 models for various lens mounts; 4 times normal area covered; micrometer focusing mount.	33.50
CHESS-UNITED CO.					
Chess-United Portrait	Positive	19-50.5 mm	See Col. 5	Portrait and close-up work—(+1, +2, +3 diopters) used with Chess-United Sunshade Filter Kits.	1.50 to 5.50
	Positive	See Col. 5	Screw-in	In Series sizes and other standard sizes; mounted and unmounted; for all still and movie cameras; +1, +2, +3 diopters.	2.75 to 3.95
EASTMAN KODAK					
Kodak Close-up Attach.	Positive	¾"-1½"	Slip-on	Close-up attachment of +¾ diopter; sizes for almost every camera.	1.40
Kodak Telek	Negative	41-50.5 mm	Both	Telephoto attachment of —1, —2, —3, —4 diopter; Series V, VI, VII and VIII.	3.35 to 4.15
		1⅜"-2"			
Kodak Portra	Positive	19-50.5 mm	Screw-in	Portrait attachment of +1, +2, +3 diopter; Series V, VI, VII.	2.50 to 4.15
		¾"-2"			
Kodak Portra	Positive	In W mount	Slip-on	For movie cameras. Portrait attachment of +1¾, +3¾ diopter.	4.49
EDNALITE OPTICAL CO					
Portrait Lens	Positive	All sizes	Both	Coated supplementary lens or close-ups, portraits, microphotography, etc.	1.75 to 5.50
ELGEET OPTICAL					
Elgeet Portrait Attach.	Positive	See Col. 5	Screw-in	Portrait attach. for Elgeet ½" cine-lenses; at f 1.9, objects at 2½ feet in focus—at f 22, objects at 6 inches in focus.	2.95
ENTECO INDUSTRIES, Inc.					
Enteco Proxar Plus 1, 2, and 3	Positive	23.5-44.5 mm	See Col. 5	For close-up, copy, and portraiture; coated or uncoated; metal ring mounted. Series IV, V, VI, VII, VIII, IX, and 21.5 mm, 31.5 mm, 39 mm, 51 mm. Fit all standard mounts plus Enteco screw-in, slip-on, and set screw adapters.	1.35 to 12.00
FOTO-RULE CO.					
Foto-Rule Uptor	Positive	See Col. 5	Screw-in	Coated close-up attachment of +1, +2, +3 diopter. Series V and VI.	2.35 to 2.85
Foto-Rule Fotor	Positive	See Col. 5	Screw-in	Same as above.	2.50 to 3.00
HEITZ AND LIGHTBURN					
Pignons Close-up	Positive	30-35 mm	Slip-on	Supplementary lens for close-up and copying. 35 mm is coated.	3.30 to 6.60
Diffusion Disc	.....	30-46 mm	Slip-on	Diffusion disk for portraiture.	3.90 to 6.60
E. LEITZ, INC.					
Elpro	Positive	See Col. 5	Screw-in	Coated supplementary lens for close-up work; +1 diopter. For 50 mm Elmar lens only.	14.00
Elpic	Positive	See Col. 5	Screw-in	Same as above, +2 diopter.	15.75
Elpet	Positive	See Col. 5	Screw-in	Same as above, +3 diopter.	19.60
MANSFIELD INDUSTRIES					
Gruenex Telephoto	Negative	See Col. 5	Both	Coated supplementary lens for telephoto work with 8 mm movie cameras. Brings distance of 100 ft. down to apparent 36 feet.	18.86
				Same as above, for 16 mm movie cameras.	22.20
				Same as above, for 35 mm cameras.	22.20
				Same as above, for folding cameras up to 2¼x3¼.	22.20
				Same as above, for all 2¼x2¼ reflex cameras.	32.82
Raydex Portrait	Positive	15-150 mm	Both	Coated lens for portrait work. Available in +1, +2, and +3 diopters for all cameras.	1.25 to 1.50
Raydex Wide-angle	Positive	See Col. 5	Screw-in	Coated auxiliary wide-angle lens for all 8 mm cameras.	17.25
				Same as above. For 16 mm movie cameras.	22.20
				Same as above. For 35 mm cameras.	22.20
				Same as above. For folding cameras up to 2¼x3¼.	22.20
				Same as above. For all 2¼x2¼ reflex cameras.	32.82
MORTON COMPANY					
Magni-Far	Negative	See Col. 5	Both	Coated supplementary telephoto lens for all 35 mm cameras with non-interchangeable lens fronts. Halves the apparent distance, with no loss in speed of lens. Available with combination lens shade and filter holder, viewfinder mask, and conversion table.	On request.
OPTEX CORP.					
	Positive	19-50.5 mm	Unmounted	Supplementary lens of +1, +2, and +3 diopter, for portrait and close-up photography. For all cameras.	1.00 to 2.00
PONDER & BEST					
PB Portrait	Positive	See Col. 5	See Col. 5	Complete with focusing scale. Sizes to fit PB, Kodak, and HCE lens shades and adapter rings. +1, +2, and +3 diopters.	1.55 to 2.18
MICHAEL SIEGEL					
	Positive	See Col. 5	Slip-on	Supplementary lens of +10 diopter, for extreme close-up photography. For use with Series V and Series VI adapter rings.	8.00
SPIRATONE					
Spiratone Portrait	Positive	See Col. 5	Both	Supplementary portrait lens of +1, +2, and +3 diopter. Available in 21.5 mm, 25 mm, and sizes to fit standard Series V and Series VI adapter rings.	0.95 to 1.65
Spiratone Telephoto	Negative	20-42 mm	Both	Coated supplementary telephoto lens for 35 mm and 2¼x2¼ reflex cameras.	22.20 to 33.20
Spiratone Wide-angle	Positive	See Col. 5	Both	Coated supplementary wide-angle lens for 35 mm and 2¼x2¼ reflex cameras.	22.20 to 33.20
TIFFEN MFG. CO.					
Tiffen Portrait	Positive	16.5-85 mm	Both	For portrait work; also available with set-screw mount.	1.25 to 3.50
Photar	Positive	See Col. 5	See Col. 5	Coated or non-coated proxar-type portrait lens. Mounted in metal ring for use with adapters of 21.5 mm to Series VII size.	1.35 to 4.50
WOLLENSAK OPTICAL					
Cine Wide-angle Attach.	Positive	See Col. 5	Screw-in	Coated wide-angle attachment for Wollensak ½ and 1-inch focus f 3.5, f 2.5, f 2.7, and ½-inch, f 1.9 lenses.	29.75

RANGEFINDERS

CHESS-UNITED

Double image type; calibrated from 2½ feet to infinity; attachable to shoe on all foreign cameras; special shoe for Kodak cameras; adjustable dial. Price, with case, $10.50.
MFR., Chess-United Co., Inc.

IDEAL

Double image type; calibrated from from 2½ feet to infinity; polished black finish; pocket type with dial reading. Price, $2.95, including case and tax. Three year service guarantee.
MFR., Federal Instrument Corp.

KALART

Double image types; calibrated from approximately 4 feet to infinity; attaches directly to side of camera; coupled to a specific lens of a given focal length; simplified adjustments for re-adjustment to supplementary lens; special outlet for attaching the Kalart Focuspot accessory. Ten models for 2¼x3¼ to 5x7 cameras. Prices range from $36.25 to $44.25.
MFR., The Kalart Co., Inc.

KODAK

Split field, military type; calibrated from 2 feet to infinity; the distance is read directly through eyepiece; used as hand meter, also fits bracket on Kodak 35 f/3.5 and f/4.5 cameras; chrome. Price including case, $12.50.
MFR., Eastman Kodak Co.

MEASURE-RITE

Double image type; calibrated in feet or meters; 2½ feet to infinity; ¾ meters to infinity; attachable to shoe on Kodak, and Universal cameras, and other cameras with side shoe; horizontal and vertical adjustments without opening the range finder; spring-cushioned transparent mirror. Price with case, $8.95.
MFR., Brownie Mfg. Co.

HUGO MEYER CAM COUPLED

Double image type; calibrated from 2½ feet to infinity; coupled directly to camera bed on press-type cameras; compensating curve cam for each focal length lens; adapted for Focalite; protected by encircling bracket. Price, $38.50 including tax.

POCKET RANGE FINDER

Double image type; calibrated from 2½ feet to infinity; attachable to shoe on camera; black wrinkle finish; available in either feet or meters; height adapter available to clear obstruction on camera. Price, $10.50 including tax.
MFR., Hugo Meyer & Co.

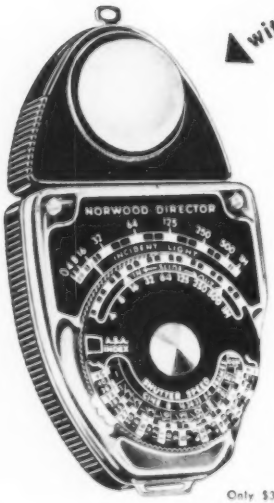
WALZ

Double image type; calibrated from 2½ feet to infinity; also available in calibrated from ¼ meter to infinity; universal attachable shoe to fit Kodak and other cameras. Price, $5.95.
DIST., General Photographic Supply Co.

A-a-a-a-h such ease!

NORWOOD Director
INCIDENT LIGHT EXPOSURE METER

▲ with the amazing photosphere* and swivel head . . .



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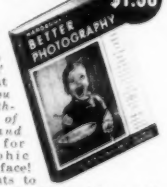

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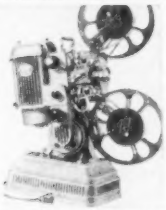
MOVIE PROJECTORS

AMPRO MODEL A-8

8 mm; silent; 400 feet capacity; line voltage 115 a-c, d-c; 50-60 cycles; 750-watt pre-focus lamp; direct lighting; separate light switch; 1-inch f/1.6 coated lens; helical focusing; combination gear and belt drive; rheostat speed control; rotary disc shutter; blower cooling; reverse; motor rewind; tilting devices; pilot light; single frame projection device; air cooling on aperture; direct and automatic rewind. Price, $129; case, $15.

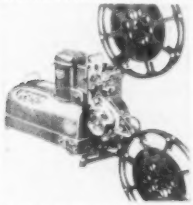
AMPRO IMPERIAL



16 mm; silent 400 feet capacity; line voltage 115 a-c, d-c; 50-60 cycles; 1000-watt pre-focus lamp; direct lighting; separate light switch; 2-inch f/1.6 coated lens; combination gear and belt drive; rheostat control; barrel shutter; blower cooling; reverse; motor rewind; tilting devices; pilot light; single frame projection device; swing-out gate; 3-tooth claw. Price, $199.50; case, $18.

AMPROSOUND PREMIER-20

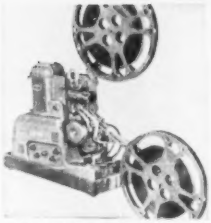
16 mm; sound and silent; 2000 feet capacity; line voltage 115 a-c, d-c; 50-60 cycles; 750-, or 1000-watt pre-focus lamp; direct lighting; separate light switch; 2-inch f/1.6 coated lens;



helical focusing; 1 to 4-inch lenses available; belt drive; governor speed control; 16 and 24 frames per second; barrel shutter; blower and fins cooling; film snubbers; reverse; motor rewind; tilting devices; pilot light; maximum undistorted output, 15 watts. Price, including case, $493.50.

AMPRO STYLIST

16 mm; sound and silent; 2000 feet capacity; portable unit, weighs 29 lbs.; 1000-watt lamp; 8-inch Alnico speaker; coated 2-inch f/1.6 lens (1 to 4-inch lenses available); triple claw movement; swing-out gate; fast automatic rewind; a-c or d-c operation; rheostat speed control; Class A universal type a-c, d-c amplifier with

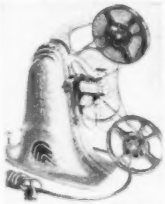


4 watts maximum output. Price, $325. MFR., Ampro Corp.

APOLLO 8

8 mm; silent; handles 400-foot reels; 110-125 a-c line voltage; coated 1-inch Simpson achromatic f/1.6 lens; 500-watt pre-focused lamp; air-blast cooling; double-claw action; 16 and 24 frames per second operating speeds; fast power rewind; rear tilting; gear drive; separate lamp and motor switches. Price, $59.50.

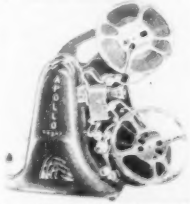
APOLLO P-66



16 mm; silent; 400 feet capacity; extension arm for 2000 feet; line voltage 110 a-c only; 500-watt T-10 lamp; direct and reflected lighting; separate light switch; 2-inch f/1.85 coated lens; helical focusing; belt drive; manual belt shift for 16 or 24 frames per second; barrel shutter; blower cooling; sealed lubrication; film snubbers; motor rewind; tilting devices. Price, $79.50.

APOLLO SOUND MODEL P-76

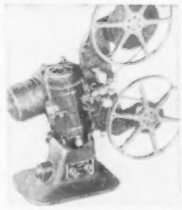
16mm; sound and silent; 400 feet capacity; extension arm for 2000-foot reels; line voltage 110 a-c only 60



cycles; 500-watt T-10 lamp; direct and reflected lighting; separate light switch; 2-inch f/1.85 coated lens; helical focusing; belt drive belt-shift speed control; 16 and 24 frames per second; barrel shutter; blower cooling; sealed lubrication; film snubbers; motor rewind; tilting devices; claw framing; plays through user's radio; maximum output depends upon user's radio; 400-foot reel antenna; weighs 30 lbs. Price, $129.50; case and 2000 ft. extension arms, $35; case, 2000 ft. extension arms, amplifier, and built-in speaker, $60.

MFR., Excel Movie Products, Inc.

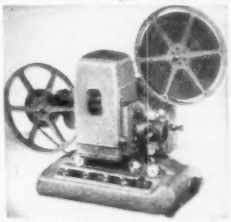
B&H REGENT



8 mm; silent; 400 feet capacity; line voltage 105-125 a-c, d-c; 500-watt B&H pre-aligned lamp; direct lighting; separate light switch; 1-inch f/1.6 coated lens; helical focusing; ¾-inch f/1.8, and 1½-inch f/2.1 lenses available; all gear drive; friction brake speed control; rotary disc shutter; blower and fin cooling; motor rewind; tilting devices; single frame projection device; metered lubrication; weighs 7 lbs.; with carrying case. Price, $159.50.

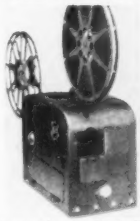
B&H PICTURE MASTER

8 mm; silent; 400 feet capacity; line voltage 105-125 a-c, d-c; 750-watt pre-aligned B&H base-up lamp; direct lighting; separate light switch; 1-inch f/1.6 coated B&H lens; rack-and-pinion focusing; same lenses available as for Regent; gear drive; rheostat control; rotary disc shutter; fan and fin cooling; reverse; motor



rewind; tilting devices; hinged film gate; weighs 14 lbs.; pilot light; single frame projection device; safe-lock sprockets; metered lubrication. Price, with case, $262.

B & H FILMOSOUND SINGLE-CASE 185-C

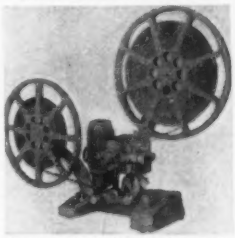


16 mm; sound and silent; 2000 feet capacity; 115 a-c line voltage; 25-60 cycles; 1000-watt B&H pre-aligned lamp; direct lighting; separate light switch; coated 2-inch B&H f/1.6 lens; helical focusing; gear drive; automatic speed control for 16 and 24 frames per second; rotary disk shutter; blower cooling with fins; film snubbers; reverse; motor rewind; tilting device; pilot light; single frame projection device; 10 watts maximum undistorted output; 400 foot reel; exciter lamp; aperture brush; oil can; spare reel arm belt; 8 or 12-inch, or power speakers may be added. Price, $399.50 including case. Accessories: microphone, auxiliary speakers, power speakers, turntables, monitor speaker; complete line of projection lenses.

B&H DIPLOMAT

16 mm; silent; 400 feet capacity; line voltage 105-125, a-c, d-c; 1000-watt B&H pre-aligned lamp; direct lighting; separate light switch; 2-inch f/1.6 coated B&H lens; helical focusing; all gear drive; friction brake speed control; rotary disc shutter; fan and fin cooling; reverse; motor rewind; tilting devices; pilot light; single-frame projection device; radio interference eliminator; metered lubrication; safe-lock sprockets; magnilite condenser; can project sound film; weighs 14 lbs. Price, with case, $273.30.

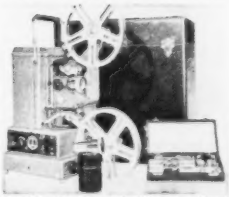
B&H SHOWMASTER



16 mm; silent; 2000 feet capacity; line voltage 105-125; 1000-watt L&H pre-aligned lamp; direct lighting; separate light switch; 2-inch f/1.6 coated B&H lens; helical focusing; gear drive; rotary disc shutter; fan and fin cooling; reverse; motor rewind; tilting devices; pilot light; single frame projection device; magnilite condenser; can project sound film; metered lubrication; safe-lock sprockets; weighs 16¼ lbs. Price with case, $312.95. Lenses available for the Showmaster and Diplomat models: 0.64-inch f/2.4; ¾-inch f/3; 1-inch f/1.9; 1½-inch f/1.9; 2½-inch f/1.65; 3-inch f/2; 3½ inch f/2.3; and 4-inch f/2.5.

MFR., Bell & Howell Co.

BOLEX MODEL G 8-16

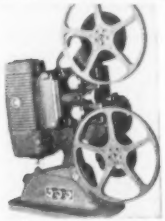


Combination 8 and 16 mm; silent; 400 feet capacity; extension arm for

800 feet; line voltage 110-120 a-c, d-c; 0-60 cycles; G-E T-12 pre-focus lamp; direct and reflected lighting; separate light switch; variable resistance built-in; built-in voltmeter in series with lamp; Kern-Paillard lens; sliding focus; gear and chain drive; rheostat speed control; rotary disc shutter; blower ventilation; reverse; motor rewind; tilting devices; single frame projection device; changeover kit; carrying case; change-over kit. Price, including 25-mm f/1.8 lens for 8 mm, and 50-mm f 1.6 lens for 16 mm, $331.

MFR., Paillard Products, Inc.

DE JUR AMBASSADOR

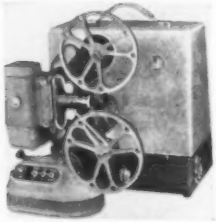


8 mm; silent; 400 feet capacity; 115 a-c, d-c line voltage; 60 cycles; 500-watt lamp; direct lighting; separate light switch; variable resistance built in; coated 1-inch f/1.6 lens; helical focusing; chain drive to take-up; rheostat speed control; rotary disk shutter; blower cooling with fins; motor rewind; tilting device; swing-out gate. Price, $99.50 including tax.

DE JUR MODEL 750

8 mm; silent; 400 feet capacity; line voltage 100-125 a-c, d-c; 25-60 cycles; 750-watt pre-focus lamp; direct lighting; separate light switch; variable resistance; coated 1-inch f/1.6 lens; sliding focusing; 1-inch and 1½-inch lenses available; single frame projection device; combination belt and chain drive; rheostat control; rotary disc shutter; blower ventilation; reverse; motor rewind; tilting devices; swing-out film gate; case, 400-ft. reel. Price, $139.50 including tax.

DE JUR MODEL 1000

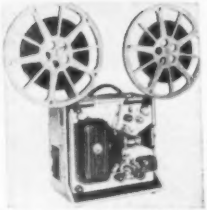


Similar to the Model 750 in features and characteristics; supplied with 750-watt lamp; has capacity for 1000-watt pre-focus lamp; pilot light; automatic cord reel; case. Price, $159.50 including tax.

MFR., DeJur-Amsco Corp.

DEVRY MODEL 14000

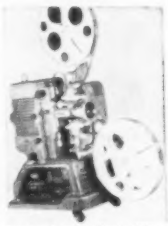
16 mm; sound and silent; 2000 feet capacity; for a-c or d-c operation; 750- or 1000-watt lamp; 750-watt supplied; direct lighting; 2-inch f 1.65 coated lens; chain drive; 16 and 24



frames per second; fan cooling with exhaust ventilation; motor rewind; tilting devices; pilot light; maximum undistorted output, 3 watts; built-in speaker; weighs 31 lbs. Price, with single case, $345; with dual case, $384.50; with combination case, $394.50.

MFR., DeVry Corporation.

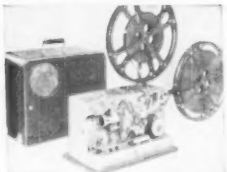
ELMO



16 mm; sound and silent; 750-watt illumination; smaller lamps can be used; 10-watt amplifier; speed control; microphone and phonograph jack; coated 2-inch f/1.6 projection lens; focusing control; 2000 feet capacity; single unit containing projector and amplifier. Price, $495.

DIST., General Photographic Supply Co.

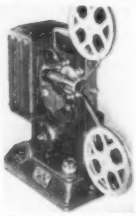
FORWAY 10-B



16 mm; sound and silent; 2000 feet capacity with extension arm supplied; 105-125 line voltages; 25-60 cycles; 750 or 1000-watt Westinghouse lamp recommended; reflected lighting; separate light switch; coated 2-inch Simpson f 1.6 lens; sliding focusing belt drive; governor speed control; rotary disk shutter; blower cooling; motor rewind; tilting device; 10 watts maximum undistorted output; steel pressure shoe and gate. Price, $366 including tax and case.

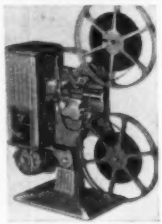
MFR., Forway Industries, Inc.

KEYSTONE MODEL R-8



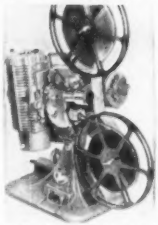
8 mm; silent; 400 feet capacity; 110 a-c, d-c line voltage; 50-60 cycles; 500-watt T-10 lamp; direct lighting; 3-position switch; 1-inch f 1.85 coated Wollensak lens; helical focusing; combination gear and belt drive; rheostat speed control; rotary disc shutter; blower cooled; motor rewind; tilting devices; pilot light; sealed lubrication with oil ducts to vital parts; weighs 23 lbs. Price $74.50; case, $10.50.

KEYSTONE MODEL R-37



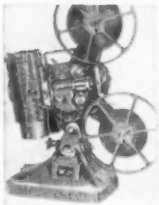
8 mm; silent; 400 feet capacity; 110 a-c, d-c line voltage; 50-60 cycles; 300-watt T-8½ lamp; direct lighting; separate light switch; coated 1-inch f/1.85 lens; helical focusing; belt drive; rheostat speed control; barrel shutter; fan cooling; sealed lubrication with oil ducts to vital parts; motor rewind; tilting device. Price, $54.40; case, $8.95.

KEYSTONE MODEL K-68



8 mm; silent; 400 feet capacity; 110 a-c, d-c line voltage; 50-60 cycles; 750-watt T-12 lamp; direct lighting; 3-position switch; coated 1-inch f/1.6 lens; helical focusing; combination gear and belt drive; rheostat speed control; rotary disk shutter blower cooling; sealed lubrication with oil ducts to vital parts; motor rewind; tilting device; pilot light; single frame projection device. Weighs 17 lbs. Price, $99.50; case, $10.50.

KEYSTONE MODEL K-108



8 mm; silent 400 feet capacity; 110 a-c, d-c line voltage; 50-60 cycles; 750-watt T-12 lamp; direct lighting; 3-position switch; 1-inch f 1.6 coated Wollensak lens; helical focusing; gear drive; rheostat speed control; rotary disc shutter; blower cooling; reverse; motor rewind; tilting devices; pilot light; single frame projection; special threading and framing; sealed lubrication with oil ducts to vital parts. Price, $122.50; case, $10.50.

KEYSTONE MODEL A-82

Similar to Model K-160 in design and features; weighs 17 pounds. Price, $99.50; case, $10.50.

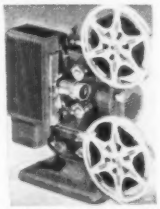
KEYSTONE MODEL K-160

16 mm; silent; 400 feet capacity; 110 line voltage a-c, d-c; 50-60 cycles; 750-watt T-12 lamp; reflected lighting; 3-position switch; 2-inch f 1.6 coated Wollensak lens; helical focusing; combination belt and gear drive; rotary disc shutter; blower ven-

tilation; sealed lubrication with oil ducts to vital parts; reverse; motor rewind; tilting devices; pilot light; single frame projection; special threading and framing; weighs [illegible] lbs. Price, $119.50; case, $10.50.

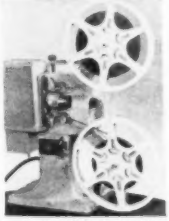
MFR., Keystone Mfg. Co.

KODASCOPE EIGHT-33



8 mm; silent; 200 feet capacity; line voltage 100-125 volts a-c, d-c; 25-60 cycles; 300-, 400- or 500-watt lamp; direct lighting; separate light switch; 1-inch f 2 Kodak coated lens; helical focusing; belt drive; rheostat speed control; rotary disc; blower and fins cooling; sealed lubrication; motor rewind; tilting devices. Price, with 500-watt lamp, $75; case, $11.

KODASCOPE EIGHT-71



8 mm; silent; 400 feet capacity; 750-watt T-12 lamp supplied; interchangeable with 300-, 400-, and 500-watt T-10 lamps or 1000-watt T-12; direct lighting; separate light switch; coated 1-inch Kodak Ektanon f/1.6 lens; rubber belt drive for quieter running; rheostat speed control; shutter operated by air pressure; blower cooling with baffles introduced between condenser and aperture systems to protect film from heat; tilting device. Price on request.

KODASCOPE SIXTEEN-10

16 mm; silent; 400 feet capacity; line voltage 100-125 a-c, d-c; 25-60 cycles; 1000-watt maximum lamp wattage; supplied with 750-watt lamp; direct lighting; separate light switch; 2-inch f 1.6 coated Kodak lens; helical focusing; belt drive; rheostat speed control; rotary disc shutter; blower

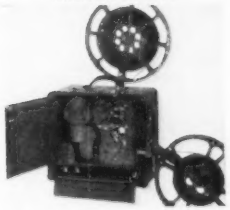
and fins cooling; sealed lubrication; motor rewind; tilting devices; oiling outfit. Price, $119.50; case, $16.50 and $30.

KODASCOPE SIXTEEN-20

16 mm; silent; 400 feet capacity; 1000-watt maximum lamp wattage; 750-watt lamp supplied; direct lighting; separate light switch; 2-inch f/1.6 coated Kodak lens; helical focusing; combination belt and motor drive to mechanism; enclosed shafts to reel arms; rheostat speed control; rotary disc shutter; blower and fins cooling; sealed lubrication; reverse; motor remind; tilting devices; pilot light; single frame projection device; push-button control; automatic wind-up for power cord. Price, with standard or Projecto case, $225. Lenses available for the Sixteen-10 and Sixteen-20 models; 1-inch f/2.5; 1½-inch f/2.5; 2-inch f/2.5; 3-inch f/2; and 4-inch f/2.5.

MFR., Eastman Kodak Co.

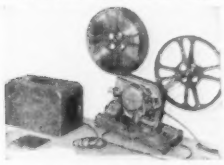
KOLOGRAPH



16mm; sound and silent; 2000 feet capacity; extension arm for 4000-foot reels; line voltage 110 a-c, d-c; 50-60 cycles; 1000-watt T-20 or T-12 lamp; direct lighting; separate light switch; 2-inch f 1.6 coated lens; helical focusing; combination belt drive; governor speed control; 16 and 24 frames per second; 2-blade shutter; blower cooling; sealed lubrication; film snubbers; motor rewind; tilting devices; maximum undistorted output, 20 watts; sprocket intermittent film movement; speaker and all necessary cords; weighs 65 lbs. Price, including case, $585.

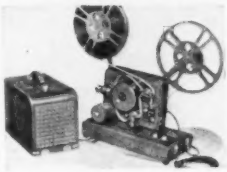
MFR., Kolograph Corporation.

MOVIE-MITE 63 LM



16 mm; sound and silent; 2000 feet capacity; line voltage 105-120 a-c, d-c; 50-60 cycles; 300-watt T-8½ bayonet base lamp; direct lighting; separate light switch; 2-inch f/1.6 coated Simco lens; combination gear and V-belt drive barrel shutter; blower cooling; film snubbers; motor rewind; tilting devices; framer; constant tension take-up; weighs 27½ lbs.; complete with 800-foot reel, desk-top screen; single case with 6-inch speaker; aperture cleaner; lubricant; oil can, etc. Price, including case, $224.50. Accessories include 10-inch speaker with 50-foot cable.

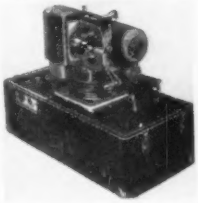
MOVIE-MITE 63 LMB



16 mm; sound and silent; 2000 feet capacity; 105-125 a-c, d-c line voltage; 25-60 cycles; 300-watt T-8½ lamp; direct lighting; separate light switch; coated 2-inch Simpson f/2 lens; helical and sliding focus; combination gear and belt drive; electrical governor speed control; barrel shutter; motor rewind; blower cooling; sealed lubrication; film snubbers; tilting device; 3.7 watts maximum undistorted output; weighs 26 lbs.; 400 foot take-up reel; aperture cleaner; 12-foot line cord; 30-foot speaker cable; 6-inch speaker. Price, $198.50 including case.

MFR., Movie-Mite Corp.

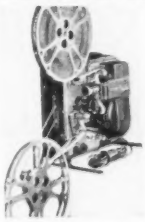
MOVIE SOUND 8



8 mm; sound and silent; 200 feet capacity; direct lighting; separate light switch; 1-inch f/2 coated Kodak lens; helical focusing; combination gear and chain drive; synchronous motor speed control; 16 frames per second; rotary disc shutter; blower cooling; motor rewind; tilting base; maximum undistorted output, 2 watts; dual speed synchronous turntable, 78 and 33 1/3 rpm; plays records up to 16 inches; weighs 53 lbs.; projector manufactured by Eastman Kodak Co.; sound unit by Wilcox Electric. Price, including case, $295.

DIST., Continental Products Corp.

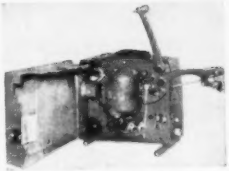
NATCO MODEL 3030



16 mm; silent and sound; 2000 feet capacity; 115 a-c, d-c line voltage; 50-60 cycles; 750- or 1000-watt lamp; direct lighting; separate light switch; 2-inch f/1.6 coated Simco lens; helical focusing; combination gear, belt, and chain drive; governor speed control; 16 and 24 frames per second; barrel shutter; fins and axial flow cooling; sealed lubrication; film snubbers; tilting devices; pilot light; maximum undistorted output, 5 watts; includes 400-foot reel. Price, including case, $289.50. Accessories include microphone, turntables, booster amplifier, microphone amplifier, cover; 1- to 4-inch lenses available.

NATCO MODEL 2125

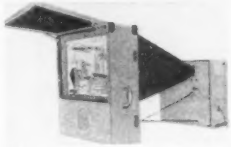
16 mm; sound and silent; uses 1000-watt T-8 pre-focused lamp; separate



light switch; blower cooling; sealed lubrication; tilting device; take-up and rewind belt; includes amplifier and projection lens; projector and amplifier built in compact carrying case. Price, $1200.

MFR., Natco, Inc.

PORTO-SOUND

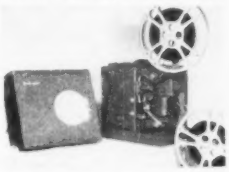


16 mm; sound only; line voltage 120 a-c; 60 cycles; 500-watt lamp; direct lighting; ¾-inch coated Wollensak f/1.9 lens; sliding focusing; combination belt and chain drive; 16 frames per second speed; rotary disc shutter; blower cooling; film snubbers; special threading and framing; maximum undistorted output, 2½ watts; self-contained 15x20" screen for visibility in fully lighted areas. Price, including case, $495.

DIST. Capitol Projector Corp.

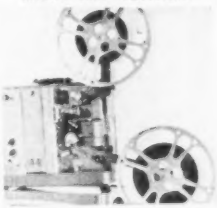
RCA 400 JUNIOR

16mm; sound and silent; 2000 feet capacity; 117 a-c line voltage; 60 cycles; 750-watt T-12 pre-focused lamp; uses 200 to 1000-watt lamps; directed lighting; separate light



switch interlocked with motor switch; coated RCA f/1.6 lens; helical focusing; belt drive; governor speed control; rotary disk shutter; blower cooled; one-spot lubrication; film snubbers; motor rewind; tilting device; pilot light; 10 watt undistorted output at less than 5% total harmonic distortion; one-case unit; spare reel; sound lamp; lens tissue; oil can; aperture brush; box fuses. Price, $442.50.

RCA 400 SENIOR

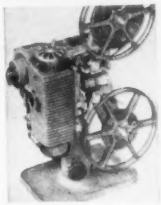


16 mm; sound and silent; 2000 feet capacity; 117 a-c line voltage; 60 cycles; same features as Model 400 Junior except is a two case unit with amplifier and projector in one and speaker in other. Price, $489. Available lenses for RCA projectors include 1-, 1½-, 2½-, 3-, 3½-, and 4-inch focal lengths.

MFR., Radio Corp. of America. Engineering Products Dept.

REVERE MODEL 85

8 mm; silent; 300 feet capacity; 110-120 a-c, d-c line voltage; 500-watt or 750-watt pre-focus lamp; 1-inch f/1.6 coated lens; ball-bearing motor drive; roller-type sprocket guides pass damaged perforations; duplex shuttle film movement; rheostat speed control; power film rewind; enclosed

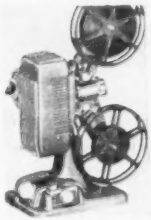


chain and gear drive; double blower cooling; single frame projection device; tilting devices; beam threading light; duo-shield diffuser to reduce ceiling light. Price, $99.50, with coated 1-inch f/1.6 lens, ¾-adapter lens, 500- or 750-watt lamp, 400-foot reel, and Royalite case, $132.50.

REVERE MODEL 90

8 mm; silent; 400 feet capacity; 110-120 line voltage; 60 cycles; 500- or 750-watt lamp; direct lighting; separate light switch; variable resistance built in; coated 1-inch lens; wide-angle attachment standard equipment, combination gear and chain drive; rheostat speed control; rotary disk shutter; blower cooled with separate film cooling fan; motor rewind; tilting device; pilot light; single frame projection device. Price, including case, $132.50.

REVERE MODEL 48



16 mm; silent; 400 feet capacity; 110-120 a-c, d-c line voltage; 60 cycles; 750-watt lamp; direct lighting; separate light switch; variable resistance built in; coated 2-inch lens; combination gear and chain drive; rheostat speed control; rotary disk shutter; blower cooled with separate blower for film; motor rewind; tilting device; pilot light; single frame projection device. Price, $137.50.

REVERE SP-16

16 mm; sound and silent; 400-feet capacity; extension arm for 1600-foot reels; line voltage 105-120 a-c, d-c; 750-watt lamp; direct lighting; variable resistance; built-in voltmeter; 2-inch f/1.6 coated lens; combination gear and chain drive; fixed speed; rotary disc shutter; double blower cooling; sealed lubrication; motor rewind; tilting device; pilot light; beam threading device;

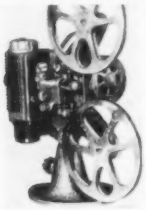
duo-shield light diffuser; combination Alnico V speaker-carrying case combination; weighs approx. 33 lbs. Price, including case, $299.50.
MFR., Revere Camera Co.

TOWER SOUND PROJECTOR

16 mm; sound and silent; 2000 feet capacity; line voltage 110 a-c, d-c; 50-60 cycles; direct lighting; separate light switch; coated 2-inch f/1.6 lens; helical focusing; belt drive; 16 and 24 frames per second; barrel shutter; weighs 37 lbs.; blower, fins, and axial flow cooling; motor rewind; tilting devices; single unit case; detachable speaker side; 400-foot and 1600-foot reel included. Price, including case, $249.
DIST., Sears, Roebuck and Co.

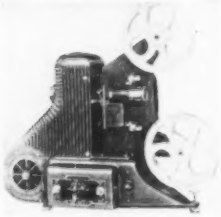
UNIVERSAL CINEMATIC MODEL 752

8 mm; silent; 400 feet capacity; line voltage 110 a-c, d-c; 60 cycles; 750-watt lamp; direct lighting; separate light switch; 1-inch f/1.6 coated lens; helical focusing; rheostat speed control; blower and fins cooling; sealed lubrication film snubbers; motor rewind; tilting devices;



pilot light; single frame projection device. Price $115.

UNIVERSAL P-500



8 mm; silent; 200 feet capacity; 110 a-c line voltage; 60 cycles; 500-watt lamp; direct lighting; separate light switch; coated 1-inch f/2 projection lens; helical focusing; rheostat speed control; blower cooled with fins; sealed lubrication; film snubbers; motor rewind; tilting device; pilot light; single frame device. Price, $75.

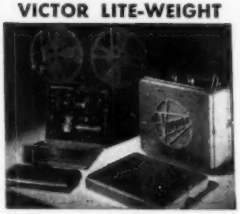
UNIVERSAL TONEMASTER

16 mm; sound and silent; 2000 feet capacity; 110 a-c line voltage; 60 cycles; 1000-watt lamp; direct lighting; coated 2-inch Superlux f/1.6 lens; coated condensers; helical focusing; tri-blade shutter; reverse draft; blower cooled; film snubbers; sealed lubrication; automatic motor-driven rewind; semi-automatic tilting; threading lamp; self-locking film gate; grouped controls; framing device; sound system includes 5-tube amplifier; 8-inch dynamic speaker with 50-foot cord; microphone and record-player plug in. Price, $350.
MFR., Universal Camera Corp.

VICTOR TRIUMPH 60

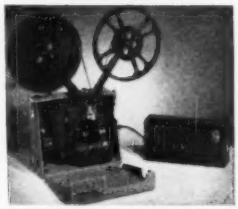
16 mm; sound and silent; 2000 feet capacity; 100-125 a-c line voltage; 50-60 cycles; 750- or 1000-watt lamp; straight line optical system; separate light switch; separate microphone and phonograph inputs; coated 2-inch f/1.6 lens; helical focusing; 1- to 4-inch lenses optionally available; rotary disk shutter; still picture device; reverse; clutch-controlled motor rewind; counter-balanced Instantilt device; automatic film trip device; 180-degree swing-out lens; 25 watts undistorted output; 12-foot power cord; weight with 12-inch speaker and 75-foot speaker line, 65 lbs. Price, $489.

VICTOR LITE-WEIGHT



Specifications similar to Model 60; 8 watts undistorted output; separate microphone or phonograph input; optional 6-inch integral, 9-inch top mounted, and 12-inch separately cased speakers; weighs 37 lbs., 43 lbs., and 57 lbs., respectively. Prices, $375, $390, and $410 respectively.

VICTOR ENVOY



Same as Lite-Weight except no reverse; no still picture device or phonograph input; a-c, d-c amplifier; 4-watt output; 750-watt illumination only. Same speakers as Lite-Weight. Prices, $295, $310, and $330 resp.
MFR., Victor Animatograph Corp.

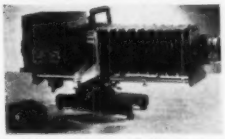
Comparison of Film Speed Rating Systems

The following tables are presented only as a general guide. Mathematical conversion is impractical, since the various systems have no common basis and vary too widely in application. In practice, however, the different systems of speed rating can be compared loosely with each other to indicate where a film's place is in any of the several systems shown. These figures have been compiled from several sources, no two of which agree in every detail. Nevertheless, the tables will form a good working basis where film-speed conversion is necessary. For information on today's films, see the charts on pages 148 and 150.

A S A Exposure Index	General Electric	Weston Numbers	American Scheiner Degrees	European Scheiner	Din Degrees	H & D British Journal of Photography	H & D Publ. by Ilford Great Britain	H & D Used on European Continent	Relative Exposure Required
0.6	0.6	.5	6	12	....	....	....	.....	106.66
0.8	.....	.6	7	13	....	....	....	.....	80.00
1.0	1.0	.7	8	14	1/10	....	....	.....	64.00
1.2	1.5	1.0	9	15	2/10	....	....	.....	53.33
1.6	2.0	1.2	10	16	3/10	....	....	.....	40.00
2.0	.....	1.5	11	17	4/10	72	....	.....	32.00
2.5	3	2	12	18	5/10	91	....	.....	25.60
3	4	2.5	13	19	6/10	117	....	.....	21.33
4	.....	3	14	20	7/10	150	....	.....	16.00
5	6	4	15	21	8/10	190	....	.....	12.80
6	8	5	16	22	9/10	240	....	.....	10.67
8	10	6	17	23	10/10	308	400	1300	8.00
10	12	8	18	24	11/10	390	500	1700	6.40
12	16	10	19	25	12/10	500	600	2100	5.33
16	20	12	20	26	13/10	636	750	2700	4.00
20	24	16	21	27	14/10	800	1000	3500	3.20
25	32	20	22	28	15/10	1050	1200	4400	2.56
32	40	24	23	29	16/10	1300	1500	5600	2.00
40	48	32	24	30	17/10	1700	2000	7200	1.60
50	64	40	25	31	18/10	2100	2500	9100	1.28
64	80	50	26	32	19/10	2700	3000	11600	1.00
80	100	64	27	33	20/10	3500	....	.....	.80
100	125	80	28	34	21/10	4400	....	.....	.64
125	150	100	29	35	22/10	5500	....	.....	.50
160	200	125	30	36	23/10	7200	....	.....	.40
200	250	160	31	37	24/10	....	....	.....	.32
250	300	200	32	38	25/10	....	....	.....	.25
320	400	250	33	39	26/10	....	....	.....	.20
400	500	320	34	40	27/10	....	....	.....	.16
500	600	400	35	41	28/10	....	....	.....	.13
650	800	500	36	42	29/10	....	....	.....	.10
800	900	650	37	43	30/10	....	....	.....	.08
1,000	1,000	800	38	44	31/10	....	....	....	.06

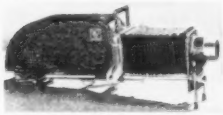
STILL PROJECTORS

AMERICAN OPTICAL

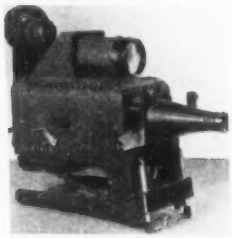


Model D Classroom Delineascope. Takes 3¼x4 glass slides, 35 mm film strips; takes 2x2 and 2¾x2¾ glass slides with accessory carriers; metal construction; weighs 16 lbs; 12-inch f/5.1 lens; helical focusing; adjustable condensers; 500-watt pre-focus lamp for a-c or d-c; natural ventilation; tilting arrangements; automatic frame-centering; combined filmslide and microslide attachment; Price, including metal case, $96. Accessories include carriers mentioned, combined film-and-microslide attach.; 6½, 8½, 10, 12, 16, and 20-inch lenses.

Model B Science Delineascope. Takes 3¼x4 glass slides; weighs 14 lbs.; 6½-inch f/5 lens; helical focusing; 500-watt pre-focus lamp for a-c or d-c; natural ventilation; tilting arrangements controlled by upper first surface mirror. Price, including case, $102.50. Accessories include a 20x40" solid-back glass beaded screen.



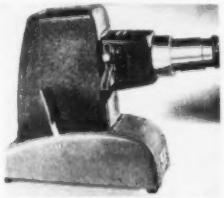
Model GK Auditorium Delineascope. Takes 3¼x4 and 2x2 glass slides, cardboard or metal mounts; weighs 21 lbs.; 12-inch f/5.1 lens; rack-and-pinion focusing; interchangeable condensers; 750-watt pre-focus lamp for a-c or d-c; forced ventilation; elevating device; horizontal carrier. Price, including case, $261.50. Accessories include 6½, 8½, 16, 20, and 24-inch lenses; iris diaphragm, and 2¾x2¾" slide carrier.



VAC Opaque Delineascope. Takes 3¼x4 glass slides, 35 mm film strips; takes 2¾x2¾ and 2x2 glass, metal, or cardboard with accessory carriers; weighs 41 lbs.; 3, 8, or 16-inch lens, f/3.5, f/5.6, and f/4.6 respectively; helical focusing; adjustable condensers; 500-watt pre-focus lamp for a-c or d-c; forced ventilation; elevating device; automatic frame-centering; horizontal slide carriers; Price, $257.50. Accessories include foot control, masking plate, leatherette carrying case, slide carriers, platen, and two postcard holders.

Model MC Delineascope. Takes 2x2 glass slides, cardboard mounts, and 35-mm strip film; weighs 9 lbs.; accommodates both single and double-frame 35-mm film; rotating projection head; coated 5-inch f/3.5 lens; helical focusing; 300-watt T-10/61 lamp; 115 line voltage; forced ventilation; switch located back of projector; 2-place horizontal Autofocus slide carrier; removable film carrier; automatic frame-centering; positive elevating lever; selection of universal or induction motor. Price, $98.50 including case.

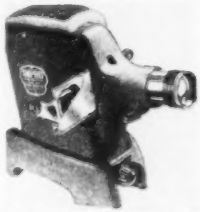
Model GK Delineascope. Takes 3¼x4 and 2x2 glass slides and 2x2 cardboard mounts; weighs 24 lbs.; coated 16-inch f/4.6 lens; helical focusing; condensers adjustable for lenses of various focal lengths; 750-watt T-12 lamp; 115-120 line voltage; forced ventilation; automatic centering slide carrier; front and rear elevating devices; selection of universal or induction motor. Price, $251 including case.



Performer 150 Delineascope. Takes 2x2 glass slides and cardboard mounts; weighs 7 lbs.; coated 5-inch f/3.5 lens; helical focusing; 150-watt T-8 lamp; 115 line voltage; switch in back of projector; 2-place horizontal Autofocus slide carrier; friction-type elevator lever; heat-absorbing glass; coated first surface reflector. Price, $42.90; case, $6.90.

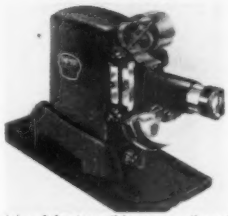
MFR., American Optical Co., Scientific Inst. Div.

AMPRO SLIDE MODEL 30-A



Takes 2x2 glass slides or cardboard mounts; weighs 11 lbs.; 5-inch f/3.5 coated lens; sliding focusing; 300-watt T-10 lamp for a-c or d-c; automatic snap-action self-centering slide carrier; screw-and-block tilting; Price, including case, $59.50. Lenses available; 3, 4, and 7-inch.

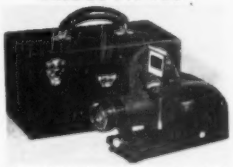
AMPRO SLIDE DUAL PURPOSE MODEL 30-D



Takes 2x2 glass slides or cardboard mounts, single frame 35 mm slide film; 5-inch f/3.5 coated lens; sliding focusing; 300-watt T-10 lamp for a-c or d-c; special fin design to give maximum air flow; automatic snap-action self-center glass or mounts; two sprockets, curved film aperture to carry film; automatic frame centering; tilting device. Price, $92 with case.

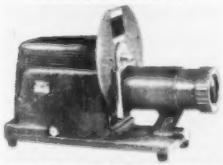
MFR. Ampro Corporation.

ARGUS PA-100



Takes 2x2 glass slides and cardboard mounts; double and single frame 35 mm; 4-inch f/3.5 coated lens; sliding focusing; 100-watt T-8 lamp; rotary-type slide carrier for right-side-up insertion; tilting arrangement permits instant exact screen centering; metal construction. Price, $27.75; with case, $31.85. Film strip holder available as accessory for $3.95.

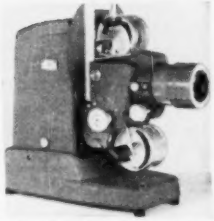
ARGUS PA-200



Takes 2x2 glass slides and cardboard mounts; accommodates single and double frame micro-films and film strips with accessory film-strip holder; oversize condensers; heat-absorbing glass; 200-watt lamp; tilting arrangement; coated 4-inch f/3.5 lens; tripod bushing to use projector on camera tripod. Price, $32.85; with case, $36.95. Film-strip holder available as accessory, $3.95.

Argus PAB-200. Same as Model PA-200, but is equipped with permanently attached blower case. Price, $42.85.

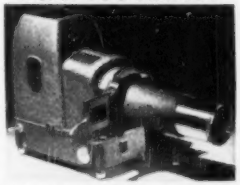
ARGUS PA-300



Takes 2x2 glass slides and cardboard mounts; double and single frame 35 mm film strips up to 10 feet in length; oversize triple condensing lenses; retractable glass pressure plate for film strips; micro-focusing; uses 300-watt T-10 lamp; 5-inch f/3.5 coated lens; other features same as the PA-100 model. Price, $75, including case.

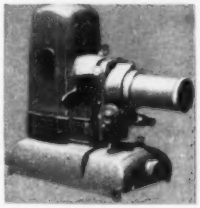
MFR. Argus, Inc.

B & H DUO-MASTER



Takes 2x2 glass slides and cardboard mounts; weighs 5 lbs.; all metal construction; provision for projecting Kodak Bantam slides vertically; 5-inch f/3.5 coated lens; helical focusing; condensers adjustable; 3½ and 7½-inch lenses available; 300-watt Biplane filament lamp; permanently attached, heat-absorbing filter, conventional 2-place slide carrier; tilting device; Price, with case, $96.50.

B & H SLIDE MASTER



Takes 2x2 glass slides and cardboard mounts; can project vertical Kodak Bantam slides; front and rear tilt control; 5-inch f/3.5 coated lens; rack-and-pinion focusing; 3½ and 7½-inch lenses available; 1000-watt base-up lamp; heat-absorbing filter; line voltage, 110-125, a-c or d-c; fan-motor ventilation; conventional horizontal 2-place sliding carrier; lifetime lubrication. Price, with case, $285.

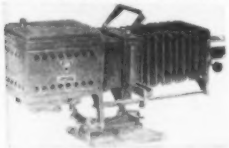
MFR. Bell & Howell Co.

B & L 2x2 SLIDE PROJECTOR

Takes 2x2 glass slides and cardboard mounts; weighs 8 lbs.; 5-inch lens; sliding focusing; 150-watt T-8 lamp on 120 line voltage; double-sliding slide carrier; tilting device; Price $58; case, $11.

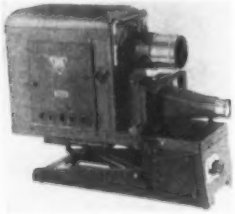
B & L BALOPTICON

Model B. Takes 3¼x4 glass slides; weighs 15 lbs.; 12-inch lens; 4 to 24-inch lenses available; 500-watt T-20 lamp; convection cooling; wooden double-slide carrier; tilting by supplemeatary legs; Price, $83; case, $6.



Model BDT. Takes 3¼x4 glass slides; weighs 26 lbs.; 12inch lens; 4 to 15-inch lenses available; rack-and-pinion focusing; 500-watt T-20 lamp; double-slide carrier; special tilting base. Price, $90; case, $6.

Overhead Model BOH. Takes 3¼x4 glass slides; weighs 14 lbs.; 5½ and 6½-inch f/3 lens; rack-and-pinion focusing; 500-watt T-20 lamp; convection cooling; flat table slide carrier; supplementary tilting legs; Price, $102.50.



Model LRM-18. For opaque objects, drawings, photographic prints, etc.; takes 3¼x4 glass slides; weighs 37 lbs.; 18-inch lens for opaque material and 10-inch lens for slide projection; sliding focusing; 7 and 14-inch lenses available; 500-watt T-20 lamp; motor-driven blower; double slide carrier; two postcard holders for opaque objects. Price, $205.

MFR. Bausch & Lomb Optical Co.

BELL BOY

Sound slidefilm projector composed of S.V.E. Model G projector with 300-watt lamp and 4-inch lens, and 8-inch Alnico V speaker with amplifier having 8-watt output; single speed, 33⅓ rpm gear-driven motor; includes case, 11½x15½" screen; and swivel top for projector. Price, $174.50.

MFR., Movie-Mite Corp.

DELPHIC 2¼ PROJECTOR

Takes 2¾x2¾ glass slides, 2x2 cardboard-mounted transparencies, and single-frame 35 mm film; 7-inch f/3.4 coated lens; rack-and-pinion focusing; 150-watt T-8 lamp; double carrier; adjustable tilting device; automatic frame-centering. Price, $39.95.

MFR. Delphic Photographic Sales Co., Inc.

DEPTHRO MODEL 8

Takes 1¾x6½ glass slides, single-frame 35 mm film; weighs 14 lbs. with case; 4-inch f/3.5 lens; helical focusing; lens coated; 5-inch lens available; 200-watt T-8 lamp; single-piece standard slide carrier; helical tilting device; semi-automatic frame-centering; Price, with case, $175. Accessories included, three viewers and three slides; special slide carriers available as extras.

MFR. Stereovision Co.

DIAMANT D-1

Takes 2¼x2¼ glass slides, and transparencies in 2x2 cardboard mounts; double and single frame 35 mm film; 8-inch f/4.5 coated lens; positive friction drive operated by a focusing knob; 150-watt T-8 lamp; natural draft ventilation; double film holder carrier; tilting device; automatic frame-centering. Price, including two 35 mm metal adapters, $59.50; case, $10.95.

MFR., Diamant Products Co.

DUNNING ANIMATIC

Model A. Projects continuous loop 16-mm filmstrip up to 400 frames; coated 2-inch f/1.6 lens; instantaneous claw movement for frame change; 300-watt Medium pre-focus bulb; pendant push-button and cord for remote control; 110-125 a-c line voltage; weighs 14½ lbs. Price, $168.

Model B. For continuous operation; projects up to 50 feet of 16-mm film frame by frame; accommodates 750-watt lamp; furnished with 500-watt; coated 2-inch f/1.6 lens; automatic timing device; manual push-button changer included; for a-c operation only; weighs 13 lbs. Price, $198.

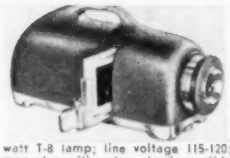
Model C. Same as Model B, but includes collapsible arms which support 9x12 translucent screen and shadow box. Price, $239.25.

Model M. Similar to Model B; manually operated with thermal air circulation; instantaneous claw movement; side of cover removable for use as screen (on inside of cover); for a-c, d-c operation. Price, $98.

MFR., Dunningcolor Corp.

EMDE MODEL 21

Takes 3¼x4 glass slides; takes 2¼x2¼ and 2x2 slides with adapters; weighs 8 lbs; coated 5-inch f/3.5 lens, coated; helical focusing; auxiliary lens available to increase focal length of projector lens used; 150-



watt T-8 lamp; line voltage 115-120; manual, positive stop aluminum slide carrier; tilting device; automatic frame centering; switch at rear of base. Price, $89.50; case, $13.75.

MFR. Emde Products, Inc.

FEDERAL MICROFILM READER-PROJECTOR

Takes single and double-frame 35 mm and 16 mm film; perforated or unperforated, up to 100 feet; weighs 10 lbs.; 65 mm f/6.3 coated lens; spiral focusing, with friction grip and lock; 150-watt T-8 lamp; convection cooling with heat-absorbing filter; tilting device; removable film carrier. Price, including 16 mm adapter, $95.

MFR. Federal Mfg. & Eng. Corp.

GOLDE MASTER PROJECTOR 447

Takes 1¾x2¼, 2¼x3¼, 3¼x4, and 2x2 glass slides; takes 2x2 cardboard mounts with accessory 2x2 slide adapter; takes double and single-frame 35 mm film with accessory Filmatic projection head; weighs 12 lbs.; rotating head; 6½-inch coated lens; helical focusing; condensers adjustable; 5, 9, and 12-inch lenses available; 500-watt T-20 medium pre-focus lamp; line voltage, 110 to 120 a-c; 2-place slide carrier; self-rewind film carrier; tilting and frame-centering devices. Price, $83.50 including case.

GOLDE MANUMATIC

Takes 2x2 glass slides and cardboard mounts; takes Bantam 828 film; projects vertical or horizontal double and single-frame 35 mm film; rotating head; 5-inch coated f/3.5 lens; helical focusing; condensers adjustable, 2, 4, and 7-inch lenses available; 300-watt T-8 or T-8½ lamp; motor driven blower; automatically stacks 50 paper or 20 glass slides; choice of Manumatic or 2-way slide carriers; tilting device; framing device. Price, $64.25 including case. Accessories include projection head for 35 mm strip film.

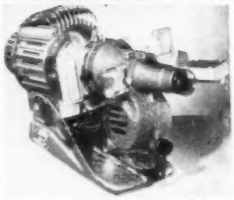
GOLDE FILMATIC 300 P

Takes 2x2 glass slides and cardboard mounts; double or single-frame 35 mm f/3.5 film; Filmatic rotating head; 5-inch coated lens; helical focusing; Manumatic or 2-way slide carrier; adjustable condensers; blower cooled; same features and characteristics as the Manumatic model. Price, $86.75 including case. Accessories same as Master model.

GOLDE AIR-FLO STEREOPTON 1043

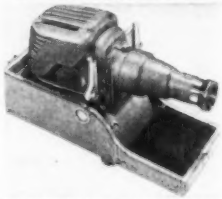
Takes 3¼x4 glass slides; takes standard sizes from 2x2 to 2¼x2¼ glass slides with accessory slide adapters; choice of 14 to 28-inch lenses; coated; helical focusing; adjustable condensers; 1000-watt T-20 lamp for a-c use; forced air-blower cooled; 2-place slide and film carriers; tilting and frame-centering devices. Price, $83 including case. Accessories available include blower-adapter, lamps, etc.

GOLDE 1000 WATT COMBINATION 1047



Takes glass slides from 2x2 to 3¼x4; takes 2x2 cardboard mounts and single and double frame 35 mm strip film; weighs 43 lbs.; coated 5-inch f/3.5 lens; helical focusing; adjustable condensers; 1000-watt T-20 lamp; 110-120 a-c operation; Manumatic or 2-way 3¼x4 slide carrier; self-rewinding film carrier; automatic frame-centering; double blower. Price, $143.25 including case. Accessories available include standard GoldE accessories and 2 to 28-inch lenses.

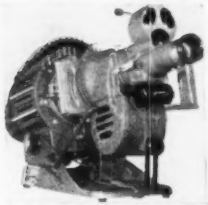
GOLDE REFLEX 349



Takes 2¼x2¼ glass slides, 2x2 cardboard mounts, and single and double frame 35-mm strip film; weighs 19 lbs.; coated 6½-inch f/4 lens; helical focusing; 5, 9, and 12-inch lenses available; condensers adjustable for lenses of various focal lengths; 300-watt T-8½ lamp; 110-120 a-c opera-

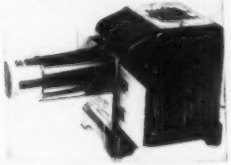
tion; blower cooled; 2-way autofocusing and self-centering slide carrier; automatic film advance; Ro-Tilt and lateral leveling device. Price, $74.75 including case.

GOLDE ALL-PURPOSE PROJECTOR 1048



Takes glass slides from 2x2 to 3¼x4; double and single-frame 35 mm film strips; coated 5-inch f/3.5 lenses; choice of 14 to 28-inch single-element lens in barrel; helical focusing; adjustable condensers; 250 to 1000-watt T-20 HPF lamp; a-c operation; a-c, d-c units available, double-blower cooled; 2-way or Manumatic slide carrier; self-rewind film carrier; tilting device; case. Price, $167.75.
MFR., GoldE Mfg. Co.

HOLLYSLIDE PROJECTOR



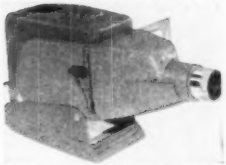
Takes 16 mm film strips; weighs 1½ lbs.; 2-inch lens; sliding focusing; 75-watt T-8 lamp; thermal cooling; 10 color transparencies mounted in a single cardboard holder; locator mechanism centers each frame as the holder is advanced through the projector. Price, $29.50.
MFR. Hollyslide Co., Inc.

KEYSTONE OVERHEAD PROJECTOR

Takes any size up to 3¼x4; single and double-frame 35 mm film; weighs 17 lbs.; projects vertical frames; 6-inch lens; sliding focusing; adjustable condensers; 500 to 1000-watt lamp for a-c or d-c use; suction fan cooling; slides lie flat on projector table; table has tilting top;

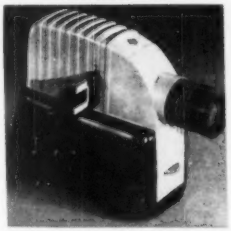
Price, $150 including case. Accessories include various size adapters.
MFR., Keystone View Co.

KIMAC DELUXE UNIVERSAL PROJECTOR



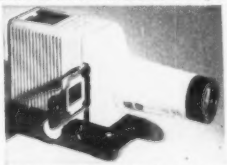
Takes glass slides from 2x2 to 3¼x4; 2x2 cardboard mounts; weighs 17 lbs.; 8-inch f/4 coated lens; helical focusing; 6-inch lens available; 300-watt T-10 lamp for a-c or d-c use; 2-place sliding carrier; tilting device. Price, $85 including case.
MFR., The Kimac Co.

KODASLIDE



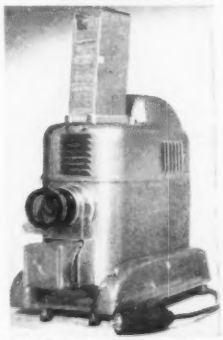
Master Model. Takes 2x2 glass slides and cardboard mounts; 5, 7½, and 1-inch coated lenses; rack-and-pinion focusing; adjustable condensers; Kodak Projection Ektar and Ektanon lenses available; 1000-watt prefocus lamp; 3-way ventilation with turbine-type fan; manually operated slide carrier; tilting mechanism; automatic frame-centering. Price, including case, $181 to $295, depending upon choice of lens.

Model 1A. Takes 2x2 glass slides and cardboard mounts; single-frame 35 mm film; projects vertical frames; 4-inch f/3.5 coated lens; sliding focusing; 150-watt lamp; 2-place metal slide carrier; automatic frame-centering. Price, $27.50; case, $10. Accessories include Kodaslide Changer.



Model 2A. Has similar features and construction as the Model 1A; 5-inch f/3.5 coated lens; sliding focusing; Kodak Projection Ektanon 7½-inch f/4 lens available; Price, $47.50; price of case, $15. Accessories include dissolve control unit, and Kodaslide Changer illustrated.
MFR. Eastman Kodak Co.

LA BELLE



Model 302. Takes 35 mm and Bantam slides; automatic magazine slide projector; slides change by remote control; holds 75 readymounts or 40 glass slides; slide magazine feeds, changes, and re-stacks slides; coated f/3.5 lens; 750-watt lamp; blower cooled. Price, $149.50 with case.

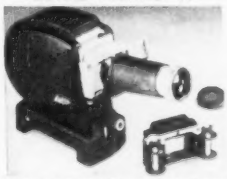
Model 500. Takes 35 mm and Bantam slides; automatically feeds, changes, and re-stacks slides; blower cooled with pre-heating chamber to condition slides for projection; holds 75 readymounts or 40 glass slides; coated f/3.5 lens; 500-watt lamp. Price, $79.50.

Model 200. Takes 35 mm and Bantam slides; automatic magazine feeds, changes, and re-stacks slides; pre-heating chamber to condition slides; "movie-action" shutter to eliminate "wipe" effect during change; holds same number of slides as Model 500; coated f/3.5 lens; 200-watt lamp. Price, $59.75.
MFR., La Belle Industries.

LEITZ VIII-S

Takes 2x2 glass slides and cardboard mounts, and double and single frame 35 mm strip film; rotating projection head; coated 85, 100, or 120-mm f/2.8 lens; helical focusing; adjustable condensers; 400-watt PFC lamp; 110 line voltage; convection cooling; metal slide carrier; roll film holder; tilting device. Price, $110.

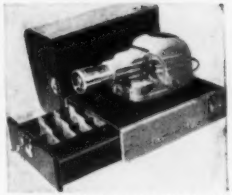
LEITZ PARVO II



Takes 2x2 glass slides and cardboard mounts, and double and single frame 35 mm strip film; coated 100 or 120-mm Hekior f/2.8 lens; helical focusing; adjustable condensers; 250-watt PFC lamp; metal carrier; roll film holder. Price, $110.
MFR., E. Leitz, Inc.

MARTON DELUXE

Takes 2x2 glass slides and cardboard mounts; 5-inch f/3.5 color-corrected Kollmorgen lens; 150-watt bayonet-base lamp; vent-cooled sliding carrier; automatic frame-centering; tilting device. Price, $22.50; case with built-in file drawer, $12.50.

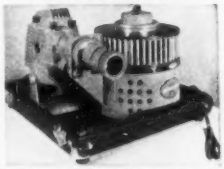


Standard Model. Identical with Deluxe except has 4-inch f/4.5 lens with helical focusing. Price, $22.50; price of case, $12.50.
MFR. Associated Photo Products.

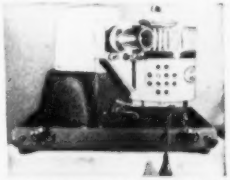
PROJECTOMAT

Takes 2x2 glass slides and cardboard mounts; continuous, automatic projection with fade-outs between each picture; shows both single and double frame 35 mm; coated 5-inch lens; sliding focus; 3 and 7-inch lenses available; 750-watt lamp; 110-120 a-c line voltage; blower cooled; automatic slide carrier with variable interval speeds; automatic frame-centering; tilting device; provisions for 4 extra individual magazines each holding 125 slides; clips for extra lamp and lens. Price, $195.
MFR., Cadwell Corp.

SELECTROSLIDE



Compact Model. Takes 2x2 glass slides and cardboard mounts; standard model for 48 slides; automatic and remote controls; weighs 26 lbs.; shows single and double frame 35 mm; coated 5-inch f/3.5 lens; helical focusing; adjustable condensers; 2 to 10-inch lenses available; 300-watt T-8½ lamp; 110 a-c line voltage; blower cooled; interchangeable magazine for 48 slides. Price, $369 including case.

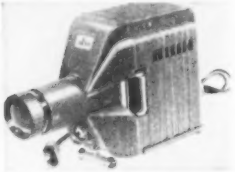


Anniversary Model. Standard Selectroslide with interchangeable 48-slide magazine; 7 and 16-seconds automatic settings; remote control from any distance; uses lamps from 300 to 1000 watts; motor driven fan cooling; 3 to 10-inch coated lenses available; carrying case with removable top; for use with 35-mm films in 2x2 cardboard or metal mounts. Price, with one lens up to 7 inches, $426.
Junior Model. Takes 2x2 glass slides and cardboard mounts; weighs 20 lbs.; shows single and double frame 35 mm; rotating projection head; coated 3-inch f/3 lens; helical focus-

ing; 2 to 5-inch lenses available; adjustable condensers; 500-watt T-10 lamp; 110 a-c line voltage; blower cooled; rotating 16-slide magazine slide carrier; automatic control; remote control cable. Price, $264; case, $18.

MFR., Spindler & Sauppe.

SKAN MODEL SP-200A

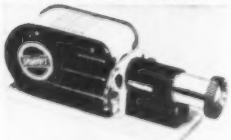


Takes 2x2 glass slides and cardboard mounts; Bantam, single and double-frame 35 mm film; coated 5-inch f/3.5 lens; friction focusing; 4-inch f/3.5 coated lens available; 200-watt T-8½ DC-short lamp; blower system cools both lamp and slide; direct insertion slide carrier; automatic frame-centering; tilting device. Price, $34.95. Accessories include slide file, carry case, etc.

Model SP-100A. Same as above in features and characteristics except it has 100-watt T-8SC-short lamp. Price $24.95.

MFR. G-M Laboratories, Inc.

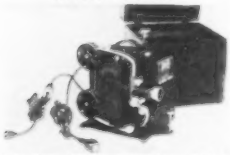
SPARTUS 2x2 SLIDE PROJECTOR



Takes 2x2 glass slide and cardboard mounts; single frame 35 mm; 5-inch f/3.5 lens; 100-watt lamp; sliding focusing; 110-120 a-c line voltage; built-in on-off switch; tilting device. Price, $12.95; case, $3.50.

MFR., Spartus Camera Corp.

STRIP-SLIDE PROJECTOR



Takes 8 and 16-mm film from still or movie cameras; weighs 11 lbs.; projects single frames in strip form; operates automatically, continuously, or by remote control; 150-watt prefocused lamp; automatic framing device; coated 2-inch lens; adjustable diaphragm; helical focusing; leveling device; blower cooled; 115-125 a-c line voltage; film is threaded similar to movie projector. Price, $99.50; case, $12.50.

MFR., Strip-Film Projector Co.

S. V. E.

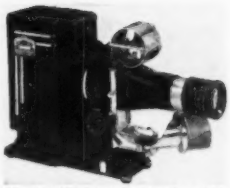
Slidette 150. Takes 2x2 glass slides and cardboard mounts; weighs 3 lbs.; 5-inch f/3.5 lens; sliding focus; 150-watt lamp; 120 line voltage; natural

draft ventilation; horizontal slide carrier; tilting device; complete with carrying carton. Price, $27.75.

Entertainer 300. Takes 2x2 glass slides and cardboard mounts; weighs 12 lbs.; shows double and single frame 35 mm; coated 5-inch f/3.5 lens; helical focusing; 3 to 7-inch lenses available; 300-watt T-10 lamp; natural draft ventilation; automatic slide changer; slide lever controlled; automatic frame-centering; automatic slide advance; tilting device. Price, $75 including case.

Instructor 300. Similar to Entertainer 300; equipped with rotating projection head; takes 2x2 slides and single and double frame 35 mm strip film; coated 5-inch f/3.5 lens; 300-watt lamp; vertical slide carrier; sprocket drive; push-in style threading; adjustable aperture for single and double frame, and 1x1" size. Price, $90 including case.

Professional 1000. Takes 2x2 glass slides and cardboard mounts; takes single and double frame 35 mm strip film; rotating projection head; coated 5-inch lens; helical focusing; blower cooled; push-in threading; semi-automatic vertical slide changer; rewind take-up, uses 1000-watt lamp; automatic frame-centering; tilting device; sprocket drive; a-c, d-c motor available. Price, $150 including case.

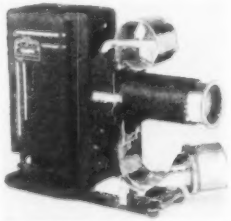


Model AAA. Takes 2x2 glass slides and cardboard mounts; single and double-frame 35 mm film strips; swivel projector head for vertical frame projection; 5-inch f/3.5 coated lens; helical focusing; 3, 4, and 7-inch lens available; 300-watt T-10 lamp; natural draft ventilation; vertical slide changer; sprocket-drive film advance with automatic rewind takeup; indexing adjustment for single or double frame; manual adjustment frame-centering; tilt lever. Price, including case, $80.

Model DD. Similar to Model AAA except it uses 150-watt T-8 lamp. Price, including case, $68.50.

Model AK. Takes 2x2 glass slides and cardboard mounts; single and double frame 35 mm film; 5-inch f/3.5 coated lens; sliding focusing; 3, 4, or 7-inch lenses available; 300-watt T-10 lamp; natural draft; ver-

tical slide carrier; adjusting tilt lever; operated from top. Price, including case, $62.90.



Model G. Similar to Model F except has 300-watt T-10 lamp; rewind take-up. Price, including case, $65.75.

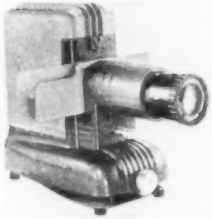
Model Q. Takes single-frame 35 mm film strips; 3-inch f/3.2 lens; sliding focusing; 4-inch lens available; 100-watt T-8 lamp; natural draft ventilation; same type film carrier as the Model F and G; adjusting tilt lever. Price, with case, $38.50. Rewind take-up available as accessory.

S.V.E. International. A gasoline-kerosene burning projector for 2x2 glass slides and cardboard mounts, and single and double frame 35 mm strip film; rotating projection head;

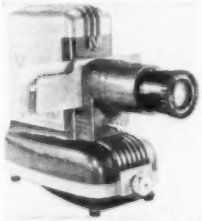
horizontal slide carrier with adapter; coated 5-inch lens; illuminated by Coleman lamp; burns from 10 to 12 hours without refilling; uses S.V.E. mantles. Price, $87.50 incl. case.

MFR. Society for Visual Education Inc.

TDC VIVID MODEL A-1



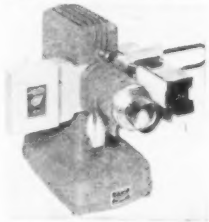
Takes 2x2 glass slides and cardboard mounts; coated 5-inch anastigmat lens; helical focusing; 150-watt T-8 lamp; a-c, d-c operation; convection cooling; self-centering shutter-type slide carrier; spring tilt adjustment. Price, $29.75; case, $6.95. Accessories include Selectron Automatic Slide changer, Selectrays, etc.



Model A-2. Similar to Model A-1 but has deluxe base; uses 200-watt T-8 lamp; convection cooled. Price, $36.50. Accessories same as A-1.

Model A-3. Identical to Model A-2 except has blower-cooling unit in base; for a-c use only. Price, $46.50. Accessories same as for Model A-1.

TDC VIVID MODEL B



Takes 2x2 glass slides and cardboard mounts; coated 5-inch f/3.5 anastigmat lens; micro-focusing; 4, 6, and 7½-inch lenses available; 150-watt T-8 lamp; a-c, d-c use; convection cooling; shutter-type carrier; self-centering; feeds from right side; twin pointer apertures; positive lock tilt control. Price, $39.75; case, $8.50. Accessories include fan cooling unit for $12.50; Selectron Automatic Slide Changer illustrated with Selectray to hold 30 slides for forward or reverse projection, $25; additional Selectrays, $1.50.

Model C. Identical to Model B except has improved condenser system; 300-watt T-10 lamp for a-c or d-c use. Price, $49.70; case, $8.50. Accessories same as for Model B.

Model D. Identical to Model C except has blower-cooling unit in base; for a-c use only. Price, $62.20; case, $8.50. Accessories same as Model B.

TDC VIVID MODEL RN

Takes 2¼x2¼ glass slides; takes 2x2 glass slides and cardboard mounts with accessory carrier; 6-inch coated lens; rack-and-pinion micro-focusing; 150-watt T-8 lamp for a-c or d-c; convection cooling; shutter-type carrier; self-centering; feeds from right side; twin pointer apertures; lateral level adjustment; positive lock tilt control. Price, $59.75; price of case, $8.50. Accessories include fan cooling unit, $12.50; deluxe slide carrier, $7.50; Selectron Automatic, $25.

Model RO. Identical to Model RN except has 300-watt T-10 lamp for a-c or d-c use. Price, $69.70. Same accessories as Model RN.

Model RP. Identical to Model RO except it has a-c blower cooling unit in base; for a-c use only. Price, $82.20; case, $8.50.

TDC PROFESSIONAL 500

Takes 2x2 glass slides and cardboard mounts (2¼x2¼ model takes 2¼x2¼ mounts, and 2x2 mounts by use of accessory carrier); coated 5-inch f/3.5 anastigmat lens (6-inch lens on 2¼x2¼ model); 4, 5, 6, and 7½-inch lenses available; 500-watt lamp; axial flow cooling fan; a-c use only; preview light; focusing, slide carrier, pointer apertures; tilt control and lateral level same as in Model B. Price, 2x2 model, $99.50; 2¼x2¼ model, $119.50; case, $15. Accessories include deluxe carrier, Selectron automatic changer, etc.

TDC PROFESSIONAL 750

Features similar to 500 model; equipped with 750-watt lamp; 1000-watt may be used; universal type centrifugal blower for a-c, d-c use. Price, 2x2 model with 5-inch lens; $150; 2¼x2¼ model with 6-inch lens,

$170; case, $20. Accessories same as for Professional 500.

TDC STEREO VIVID

Takes Stereo-Realist slides and standard 35-mm stereo slides; also takes standard 2x2 slides for regular projection; has dual projection system with matched coated 5-inch anastigmat f/3.5 lenses for three-dimensional projection in color; lenses simultaneously focused with compensating adjustments; 2 500-watt lamps with dual condensing system and independent light controls; blower-and-duct cooling system; a-c operation only. Price, $165; case, $20. Stereo Vivid with 4-inch lenses, $185; models for d-c use available at extra charge of $10. Accessories include Polaroid plastic spectacles, $2; Polaroid cardboard viewers, 15 cents; TDC Stereo screen 50x50 inches, $39.75.

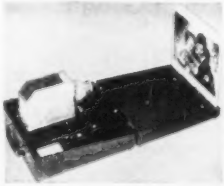
MFR., Three Dimension Co.

TOWER

Takes 2x2 glass slides and cardboard mounts; takes horizontal or vertical slides; 4-inch f/3.5 lens; sliding focusing; 100-watt pre-focus lamp for a-c or d-c; double slide carrier; tilting device. Price, $11.95.

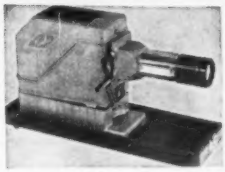
DIST. Sears, Roebuck and Co.

VIEWLEX MODEL AP-1



Takes 2x2 glass slides and cardboard mounts; weighs 8 lbs.; coated 2-inch f/3.5 lens; 5- and 7-inch lenses available; condensers adjustable and interchangeable; 150-watt T-8½ lamp; ventilation by multiple chimney; built-in slide carrier; tilting by elevator leg; automatic frame-centering. Price, including case, slidefile, and screen, $64.50.

VIEWLEX MODEL AP-3

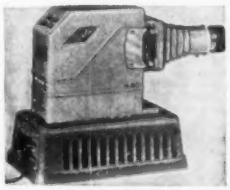


Takes 2x2 glass slides and cardboard mounts; weighs 5 lbs.; coated 5-inch f/3.5 lens; helical focusing; adjustable and interchangeable condensers; 150-watt T-8½ lamp; 110-120 a-c, d-c line voltage; built-in slide carrier; automatic frame-centering; tilting device. Price, $39.50; case, $7.50.

VIEWLEX MODEL AP-5

Takes all size 2¼x2¼ binders; also 2½x2½ and 2¾x2¾ glass slides, and 2x2 cardboard mounts; weighs 6 lbs.; coated 5-inch f/3.5 lens; helical focusing; 150-watt T-8½ lamp; for a-c, d-c use; built-in slide carrier for 2½x2½ and 2¾x2¾ slides; tilt device; multiple chimney. Price, $49.75; case $7.45.

VIEWLEX MODEL AP-55



Similar to Model AP-5, but has motor fan in base for ventilation; weighs 7 lbs.; 110-120 a-c use only; separate fan and lamp switches in rear of unit; 300-watt T-8½ lamp. Price, $69.50; case $9.90.

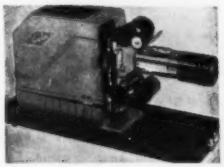
VIEWLEX MODEL AP-33

Similar in appearance to Model AP-55; takes 2x2 glass slides and cardboard mounts; coated 5-inch f/3.5 lens; helical focusing; adjustable and interchangeable condensers; 300-watt T-8½ lamp; 110-120 a-c use only; motor fan cooled; built-in slide carrier; Airjector pressure dome; automatic frame-centering; tilt device. Price, $59.25; case, $9.90.

VIEWLEX AP-1C

Takes 2x2 glass slides and cardboard mounts; single and double-frame 35 mm film; projects vertical slides, weighs 8 lbs.; 2-inch f/3.5 coated lens; helical focusing; condensers adjustable and interchangeable; 150-watt T-8½ lamp; 110-120 a-c, d-c line voltage; multiple chimney for ventilation; built-in slide carrier; self-indexing, semi-automatic threading film carrier; tilting device; automatic frame-centering. Price, including case, slide file for 150 slides, and screen, $77. Automatic film advance available as accessory.

VIEWLEX AP-2C



Takes 2x2 glass slides and cardboard mounts; single and double-frame 35 mm film strips; projects vertical frames; weighs 6 lbs.; coated 5-inch f/3.5 lens; helical focusing; condensers adjustable and interchangeable; 5-inch lens available; 150-watt T-8½ lamp; built-in slide carrier; self-indexing, semi-automatic threading; full reverse on film; tilting device; automatic frame-centering. Price, $67.50; case, $7.45.

VIEWLEX MODEL AP-22C

Similar to Model AP-2C, but has fan cooling with motor built-in base; weighs 8 lbs.; for 110-120 a-c use only; separate fan and lamp switches in rear of unit; 300-watt T-8½ lamp. Price, $86.75; case 9.90.

VIEWLEX MODEL AP-7CT

Takes 2x2 glass slides and cardboard mounts, and double and single frame 35 mm; weighs 12 lbs.; rotating projection head; coated 5-inch f/3.5 lens; helical focusing; adjustable condensers; uses 300 to 1000-watt lamp; 110-120 a-c use; motor built in base for fan cooling; semi-automatic slide carrier; removable, semi-automatic, self-indexing film carrier with take-up; automatic frame-centering; tilting device. Price, $245 including case. Universal motor on request.

MFG., Viewlex, Inc.

VIEW-MASTER

Projects View-Master seven-scene color reels only; 3-inch f/3 coated lens; 75-watt T-8 lamp; convection cooling; automatic centering; tilting device; double-mirror tilt reading; automatic film advance; built-in projection pointer throws arrow on screen. Price, $47.50; case, $5.

MFR. Sawyer's Inc.

WEIMET MODEL A DELUXE

Takes 2x2 glass slides and cardboard mounts; single and double-frame 35 mm film; 5-inch f/3.5 lens; apertures up to f/3.5; helical focusing; 150 watt bayonet-type lamp; self-centering slide carrier; tilting device; automatic frame-centering. Price, $22.50.

MFR., Weimet Film Co., Inc.

PROJECTION SCREENS

AURORA

Model S. Glass beaded; tripod type; square size screens adjustable to oblong shape; equipped with square-tubed tripod. Sizes from 30x40 to 52x70 inches; priced from $15.95 to $35. Seven different sizes available.

Model C. Glass beaded; tripod type; tripod included; size 30x40 $11.95; size 40x40 $13.95; size 37x50, $16.95. Carrying case available for $3.50.

Model D. Glass beaded; hanging type; includes case; hanger brackets; 10 models; sizes from 30x40 to 84x84 inches; square and rectangle; priced from $10 to $52.50.

Model E. Glass beaded; table (easel) model; furnished with wire easel and rubber tip; 3 sizes, from 13x18 to 30x40 inches; priced from $1.50 to $5.75.

Money-Saver. Glass-beaded; tripod or wall hanging model; 30x40 inches; price, $9.95; case available at $2.50.

MFR., Aurora Industries, Inc.

BAUSCH & LOMB

Models 41-31-26 and **41-31-28.** White opaque; hanging type; made of heavy cloth; spring rollers; two sizes, 6x6 feet, $15; 8½x8½ feet, $28.

Models 41-31-36 and **41-31-38.** Aluminum coated; hanging; heavy material with metallic surface; mounted on spring rollers; two sizes; 6x6 feet, $20; 8½x8½ feet, $28.

MFR., Bausch & Lomb Optical Co.

CRYSTAL BRITE

Table Model. Beaded surface; matte-white; standard type table model; 5 sizes available; 13x18 to 40x40 inches; prices from $1.95 to $6.

Model 1000. Glass-beaded; standard folding tripod type; spring rollers in metal case; 2 sizes, 30x40 and 40x40 inches; prices, $9.95 and $13.50.

Model 1300. Glass-beaded; portable metal box type; dustproof; spring roller; combination tripod and table-type model; size, 30x40 inches; price, $12.95.

MFR., David Specialty Co.

CURIO PHOTO

Opacoflex. Translucent surface; hanging type; for toy projectors, 8 and 16 mm projectors; three sizes; 18x25, $1.50; 25x37, $2.50; 38x38 inches, $3.50. Cases available for $.50.

MFR., Curio Photo.

DA-LITE

Model B. Crystal-beaded; matte-white; hanging type; spring-roller; all-metal case protects screen when not in use; has brackets for wall or ceiling; sizes from 30x40 to 72x96 inches; priced from $10 to $40; square sizes from 40x40 to 84x84 inches; priced from $11.50 to $65. All Da-Lite prices slightly higher on West Coast.

Model C. Crystal-beaded or matte-white; built in wall and ceiling hangers; spring-roller and all-metal case; sizes from 6x8 feet to 12x12 feet; priced from $86 to $175.

Electrol. Crystal-beaded or matte-white; hanging screen; electrically operated; limit switch for automatic operation; sizes from 6x8 feet to 20x20 feet; priced from $275 to $525.

Versatol. Crystal-beaded; tripod type; spring-roller; square tube; automatic height adjustment; sizes from 30x40 to 70x70 inches; priced from $13.50 to $41.

DeLuxe Challenger. Crystal-beaded or matte-white; tripod-type; automatic, positive locking tripod adjustment; gable-roof legs; sizes, 30x40 to 70x70 inches; priced from $17.50 to $46; cases, $6 to $8.

Picture King. Beaded; mildew and fire resistant; all-aluminum tripod; secure locking device; leveler for correct positioning; gravity-opening legs; sizes, 37x50 to 72x96 inches; priced from $39.50 to $95; cases, $7 to $12.50.

Stereo Challenger. Silver surface for three-dimensional projection; hangs flat; projector light polarization; tripod-type model; sizes, 40x40 to 70x70 inches; priced from $22.75 to $52.90; cases, $6 to $8.

Da-Lite Jr. Crystal-beaded; table or hanging-type model; screen surface held taut between 2 all-steel tubes by spring wire support; suction cup foot; sizes, 18x24 to 30x40 inches; priced from $3.50 to $7.

MFR., Da-Lite Screen Co., Inc.

FOWLER

Klearcite. Translucent; table type; mounted in frames with feet; rear projection allows pictures to be shown in daylight. Prices and sizes on request.

MFR., Fowler Company.

NATCO

Natco. Beaded; tripod type; silver Hammerloid finish; four sizes, 30x40 to 52x70 inches; priced from $16.85 to $40.

MFR., Natco, Inc.

PETRICK

Pet Economy. Glass-beaded; tripod model; handle for carrying; automatic spring lock on extension rod. Screen sizes 30x40, 40x40, 37x50 inches; priced at $9.95, $13.50, and $15.95; cases available as accessories.

Pet Wall Model. Glass-beaded; hanging type; spring roller; steel case; 3 sizes, 30x40, 40x40, 37x50 inches; priced at $9, $10, and $14.50; cases available as accessories.

Pet Table Model. Glass-beaded; table model; 2 sizes, 30x40 and 40x40 inches; priced at $12.50 and $15; cases available at $9 and $15.95.

MFR., Petrick Bros., Inc.

RADIANT

Radiant Automatic. Glass beaded; washable Vyna-Flect mildew-proof, flame-proof fabric; electrically operated with reversible a-c motor; aluminum screen roller; can be suspended from ceiling or mounted on walls. 16 sizes from 6x8 to 20x20 feet; prices on request.

Model DL Screenmaster. Glass-beaded; matte-white or 3-dimension silver; flame-proof; mildew proof; washable Vyna-Flect screen fabric; adjustable screen height and size; snap-out leg opening; 8 sizes from 30x40 to 70x70 inches; priced from $17.75 to $49.50; cases from $4.25 to $6.75.

Super De Luxe. Glass beaded; tripod type; metal tripod with swing-out metal case having round end cap; enclosing slat collars; 7 sizes, from 30x40 to 52x70 inches; priced from $15.95.

Model K DeLuxe Champion. Glass-beaded Hy-Flect fabric; square tubed tripod; fully adjustable; no-tear roller pocket; 8 sizes, 30x40 to 70x70 inches; priced from $15 to $41.50; cases, $3.50 to $6.

Model Q Leader. Glass-beaded Hy-Flect fabric; full height and screen size adjustability; light weight; 3 sizes, 30x40 to 37x50 inches; priced from $11.95 to $15.95; cases, $2.50 and $3.

Model O Easematic. Vyna-Flect, washable, mildew-proof, flame-proof fabric; single tripod; counter-balance for lowering and raising; sizes, 70x70, 63x84, 70x94 inches; priced at $75, $87, and $99.50; cases, $19, $20, and $22.

Model W Wall Hanging Screen. Glass-beaded; washable, mildew-proof fabric; metal case; spring roller; 10 sizes, 30x40 to 84x84 inches; priced from $10.50 to $54.

Model L Easel and Table Type. Fine grain, beaded fabric; hanging-type; slot tips and black border; 3 sizes, 18x24, 22x30, and 30x40 inches; priced at $2.50, $4, and $6.75.

MFR., Radiant Mfg. Corp.

RAVEN

Aristocrat. White opaque, beaded or Witelite; Haftone; tripod model. Size 30x40 inches, priced from $29 to $32; size 37x50 inches, priced from $34 to $37.

De Luxe Automatic. White opaque, beaded, or Haftone; table model; seven sizes from 30x40 to 70x70 inches; priced from $22.50 to $63.

Duplex Model. White opaque, beaded, or Haftone; tripod model; detachable tripod so screen can be used as hanging model, and tripod for flashlight stand; four sizes from 30x40 to 50x67 inches; priced from $21 to $43.

Standard Model. White opaque, beaded, or Haftone; tripod model; can be used as automatic table model; portable tripod; four sizes from 30x40 to 50x67 inches; priced from $22 to $48.

Metal Case Hanging Model. White-opaque, beaded, or Haftone. Spring roller in metal case; 16 sizes, from 30x40 inches to 10x10 feet; priced from $9 to $125.

New Standard Tripod Model. Beaded, Witelite (matte-white) or Haftone (cotton face matte-white); sizes 30x40 to 50x67 inches; priced from $18 to $60.

DeLuxe Automatic Collapsible Box Model. Beaded, Witelite (matte-white) or Haftone (cotton face matte-white); sizes, 30x40 to 45x60 inches; priced from $24 to $47.

Metal Case Hanging Model. Beaded, Witelite (matte-white) or Haftone (cotton face matte-white); sizes, 30x40 inches to 10x10 feet; priced from $11 to $125.

Auditorium Model. Beaded, Witelite (matte-white) or Haftone (cotton face matte-white); springless roller, rope and pulley operation; sizes, 8x10 to 20x20 feet; priced from $130 to $460. Rear projection screens available; sizes from 52x72 inches to 20x20 feet. Models and prices on request.

MFR., Raven Screen Corp.

SIMPLEX

Simplex. White reflective paper; replaceable if soiled or damaged; weight 4½ pounds; table model; leather carrying handle; 32x32 inches; price, $7.50.

MFR., Engineered Products Co.

STEWART

Rear Projection. Plastic screen for any light transmission to balance with projector light; white, neutral, or black tone; special roller type of any desired light transmission mounted in roller case with side arms; sizes, 24x30, 30x30, 30x40 and 40x40 inches; also models available for Polaroid and stereoscopic projection. Prices on request.

Front Projection. Reflective type; white matte; silver finish for Polaroid and stereo projection; available in any size for frames or in 30x30 or 40x40 inches roller cases. Prices on request.

MFR., Roy C. Stewart & Sons

S.V.E.

Glowhite. Matte-white, beaded, or silver; lightweight; adjustable in height; three sizes: 40x40 inches, $20; 50x50 inches, $27.50; 60x60 inches, $38.50.

MFR., Society for Visual Education, Inc.

TRANSMIRRA

Depth-Vue. Silvered, beaded, or flat white; box model; seven sizes, from 30x40 to 70x70 inches; priced from $35 to $95.

MFR., Transmirra Products Corp.

TOWER

Tower DeLuxe. Glass-beaded; tripod model; steel extension rod; adjustable steel tripod with rubber feet; metal handle; rust resistant; automatic clutch for raising and lowering; attached metal carrying case; 4 sizes, 30x40, 37x50, 50x50, 52x70 inches; priced at $14.95, $19.50, $22, and $32.50.

Tower Economy. Glass-beaded; tripod model; all-steel stand; 2 sizes, 30x40 and 40x40 inches; priced at $8.95 and $10.95.

Tower 8500. Glass-beaded; hanging or table model; metal base for table use; durable; rust-proof; spring roller; light-weight portable; size, 22x30 inches. Price on request.

MFR., Sears, Roebuck & Co.

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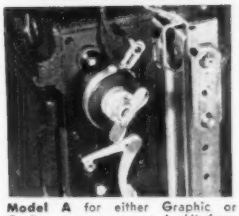
(Including Flashing and Remote Flash Units)

BACO FOCAL PLANE SYNCHRONIZER



Model A for either Graphic or Graflex cameras, comes in kit form to be installed by any service department; positive synchronization with focal-plane shutter with either G-E 31 or Superflash 2A flashbulbs used at any speed above the actual duration of the flash.

Model B is similar to above but may be installed by anyone; comes as a complete unit and attaches to the winding key of the camera. Price of each, less battery case or reflector, $15.

MFR. Baco Accessories Co.

C.O.C. UNIVERSAL

Available in 5 models to fit most single and double action shutters with cable release socket; adjustable, aplanatic reflector; battery case with extension outlet; mechanical synchronization; Model 10-A complete with Universal tripper, $9.90 including tax; Model 10-B complete with accessory cable for Kodak cameras with Pre-synchronized shutters, Land camera, Ciro-flex, Ansco Speedex and Titan, $8.90 including tax; same price for Model 10-C designed for cameras with Prontor shutters, Model 10-D for Kine Exaktas, and Model 10-E for Robot cameras.

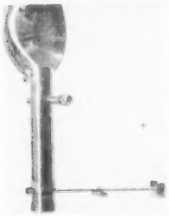
MFR., Camera Optics Mfg. Corp.

COMPRO-FLASH

For Compur and Compur Rapid shutters, including both rim-set and dial-set types; internal built-in synchronization; the system couples directly to the blade actuator linkage of the shutter and gives consistent results with low contact resistance; all work done at the factory. Price of installation with cord and plug, $15. Accessories include 2-cell flash holder, long cords, and 7-inch reflector.

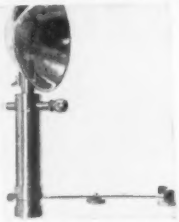
MFR. Compro-Flash.

FLASH KING MODEL E



Synchronizes with between-the-lens shutters at all speeds with standard wire-type lamps and body-release type cameras such as Retina and Argoflex; synchronizes by means of mechanical cocking and solenoid tripping device; adjustable bracket with supporting clips; 5½-inch reflector; remote control outlet and extension outlet. Price, $17.25 including tax. Accessories include remote control cord and brackets.

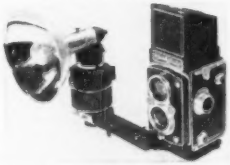
FLASH KING MODEL SM



For use with Eastman self-cocking shutters; adapted to focal-plane shutters of Contax, Leica, and Foth Derby at recommended speeds from 1/100 to 1/1250 sec.; uses two medium-sized batteries; 5-inch reflector; for midget bulbs; slip-in bayonet socket; synchronizes by means of a toggle action switch having a zero time lag. Price, $10.50 including tax.

MFR. Western Photographic Mfg. Co.

FLASH-TRONIC



Mechanical synchronizer; models designed for Automatic Rolleiflex, Contax, and Leica cameras; batteryless unit using a-c generator; recommended speeds with Leica shutter, 1/40 to 1/1000 sec.; with Contax, 1/25, 1/50, and 1/125 sec. and faster; 2 reflectors available as accessories; unit generates own current. Price, $59.50 including tax for Rolleiflex, Leica, or Contax model. Accessories include reflectors, multiple flash extension adaptors, hand cable releases, etc.

MFR., Technical Oil Tool Corp.

GRAFLITE FLASH SYNCHRONIZERS

Model 2726 for between-the-lens shutters; 2-cell battery case; 5-inch reflector; high resistance, inertia-type solenoid, 3-position series-parallel switch; 5 identified outlets; automatic lamp ejector; micromatic switch; right or left mounting; heavy duty clamp; remote control outlet; provision for multiple battery connections. Price with solenoid, mount, and connecting cord, $39.15.

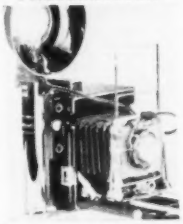
Model 2728 same as 2726, but with 7-inch reflector for standard screw-base lamps. Price, $38.15.

Model 2736 same as Model 2726, but with 3-cell battery case. Price, $40.65.

Model 2738 same as Model 2728, but with 3-cell battery case. Price, $39.65. Accessories for Graflite synchronizers include 5 and 7-inch reflectors, extension tubes, connecting cords, side-lighting units, mounting brackets, safety shield for 5-inch reflectors, diffusion shield for 5-inch reflector.

MFR., Graflex, Inc.

HEILAND PRESSMASTER



Synchronizes with between-the-lens shutters from 1/25 to 1/500 sec.; adaptable to focal plane shutters on Crown and Speed Graphic, and similar type cameras; 3-cell case using size D batteries; 7-inch Lumenar-Type 47 reflector; self-centering socket with reflector adjustable for all standard flashbulbs. Price, with battery-case E clamp, $39.90; with heavy duty mounts, $43.05. Prices do not include tax. Accessories include all Heiland reflectors and Multiflash equipment.

PRESS MODEL S

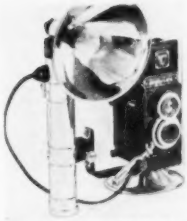
Synchronizes with between-the-lens shutters at speeds from 1/25 to 1/500 sec.; adaptable to focal plane shutters on Speed-Graphic type cameras; 3-cell battery case using size D batteries; choice of reflectors. Prices, with battery case clamp, vary from $33 to $37, depending upon the reflector. Prices, with heavy duty mounts, vary from $37.90 to $51.95, depending upon the reflector. Accessories same as above.

MODEL K SYNCHRONIZER

For use with cock-and-trip shutters and cable release shutters; 3-cell case using size D batteries; choice of reflectors; Prices, with K clip that screws in tripod socket, vary from $29 to $33, depending upon reflector. Prices, with S clip, which mounts to encircling bracket, vary from $30.65 to $34.65, depending upon reflector. Prices do not include tax. Accessories same as above.

MODEL KD

For use with Argoflex, Ciroflex, and self-cocking shutters; features same as above. Price, with battery case, battery case clamp, reflex bracket, coil with special mounting bridge,



varies from $38.45 to $40.45, depending upon reflector. Price does not include tax.

PRESS MODEL SR

For use with all Rollei cameras; can be used with similar type cameras with some adaptions; 3-cell battery case; uses size D batteries; battery case clamp; universal reflex bracket; two types of coils and cords. Price varies from $44.80 to $46.80, depending upon reflector; does not include tax. Accessories same as other models.

MODEL KB

For use with the Super Ikonta B and BX models; 3-cell battery case; uses size D batteries; either B-I or B-II bracket. Price varies from $39.70 to $41.70, plus tax, depending upon reflector. Accessories available, the same as above.

MFR., Heiland Research Corp.

JEN FLASH TYPE I MODEL A

For use with Leica Models D, F, G, II, III, IIIa, IIIb from Nos. 30,000 to 365,000; Kardon, and Russian and Japanese Leicas; recommended speeds for synchronization with focal plane shutter, from 1/60 to 1/1000 sec.; uses 3 penlite batteries, 5½-inch paraboloidal reflector; bayonet socket. Price, $32.82, including tax. Accessories include auxiliary mounting clip, carrying case, reflectors, cables, and extensions.

JEN FLASH MODEL 3C

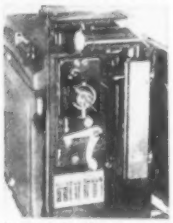
For use only with the Leica IIIc above No. 365,000; recommended speeds for synchronization with focal plane shutter, from 1/60 to 1/1000 sec.; all features and characteristics are the same as the above model. Price, $32.82, including tax. Accessories available, the same as the Model A unit. Model D for standard Leica, Nicca, and Canon cameras, $32.82 including tax.

JEN FLASH TYPE II CAPTOR

Mechanical synchronizer for same miniature cameras as Type I model; recommended speeds for focal-plane synchronization, 1/60 to 1/1000 sec.; uses 1 22½-volt battery; 5-inch paraboloidal reflector; bayonet lamp socket; employs capacitor discharge system; unit installed by user. Price, Model A for same cameras as Type I Model A, $47.82 including tax; Model BC, $47.82, and Model D, $47.82. Available accessories include auxiliary mounting clip; extension; carrying case, reflectors, cables, etc.

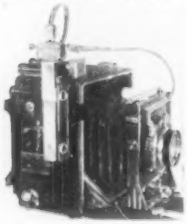
MFR., Jen Products Co.

KALART SISTOGUN II



For focal plane shutters on 3¼x4¼ and 4x5 Anniversary and old-style Graphic cameras; synchronized speeds up to 1/1000 sec.; use with G-E 31 and Superflash 2A flashbulbs; fits under winding knob of focal plane shutter; can be used with same battery case and reflector as used with front shutter synchronizer. Price, complete with screws for installation and connecting cord, $14.50 including tax.

KALART SYNCHROSTROB



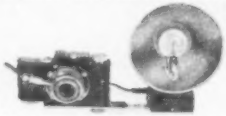
Synchronizes with between-the-lens shutters up to 1/100 sec., with instantaneous firing electronic flash units. Eliminates open-shut flash shots with electronic flash units; operates mechanically with no battery case necessary; automatically opens the shutter first and then fires the flash unit at optimum opening of shutter. Price complete, $15 including tax.

KALART COMPAK AUTOMATIC SPEED FLASH

For use with Compur and other between-the-lens shutters; uses midget bayonet flashbulbs only, includes Battery-Flector unit; built-in Safety-First test light; 2 size C batteries; 5-inch concentrating reflector; patented bulb ejector; extension bracket;

lightweight, pocket-sized unit. Price, $20.95 including tax. Accessories include cables, adapters, and fittings.

KALART COMPAK PASSIVE SPEED FLASH



For cameras having pre-set automatic self-cocking shutters; available without tripper for use with shutters having built-in synchronization; has same general make-up as the above model; Complete with Passive synchronizing unit, Battery-Flector unit with two standard C-size batteries, built-in Safety-First test light, and extension bracket. Price, $9.95 including tax. Accessories include Model PSW synchronizer unit for self-setting Wollensak shutters, and PWA adapter for Ansco Viking camera.

KALART MASTER AUTOMATIC SPEED FLASH

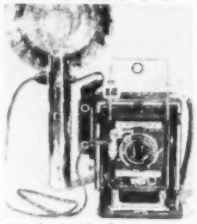
Synchronizes with Compur or other between-the-lens shutters at all speeds; can be satisfactorily adapted to focal plane shutters on the Contax, Leica and most miniature cameras; recommended speed with focal plane shutter 1/700 sec. or faster; available without tripper for use with shutters having built-in synchronization; has 3 standard size C batteries; 6-inch paraplanatic reflector; adjustable for various bulb sizes; unit opens the shutter mechanically, using batteries only to flash the bulb; Focuspot outlet. Price complete, $24.60 including tax. Accessories include reflector for midget flashbulbs, Kalite flash extension unit, couplings, adapters, and fittings.

KALART MASTER PASSIVE SPEED FLASH

For use with cameras having pre-set, automatic self-setting shutters; available without tripper for use with shutters having built-in synchronization; 3 size C batteries; 6-inch paraplanatic reflector; standard lamp socket; outlet for using extension cord for multiple flash. Complete with Passive synchronizing unit, battery case with 3 batteries, and angle extension bracket. Price, $16.30 including tax. Accessories include synchronizing unit for self-cocking Wollensak shutters, and adapter for Ansco Viking camera; concentrating reflector for midget flashbulbs.

MFR. The Kalart Co.

KING LIFE S-G



Synchronizes with Compur or other between-the-lens shutters from 1/50 to 1/400 sec.; available without tripper for use with shutters having built-in synchronization; 3 standard batteries; 6-inch reflector adjustable for various bulb sizes; standard socket; adjustable case clamp; focus spot outlet; remote control and extension flash outlets on battery case. Price, complete, $10. Complete line of accessories.

LIFE KING B

Synchronizes with Compur and other between-the-lens shutters from 1/50 to 1/400 sec.; has 3 standard batteries in 3-cell chrome-plated case; bayonet safety base; adjustable case clamp; 6-inch reflector; molded cords; special tripper bracket. Price, $10. Complete line of accessories available.

LIFE SPEED R

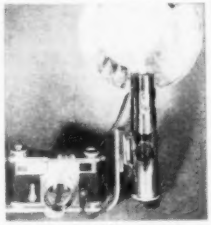
For use with between-the-lens shutters; has same make-up as the above model; camera must be shipped to factory for installation. Complete with 3-cell battery case, safety base, adjustable case clamp, and 6-inch reflector, price is $32. All accessories available.

KING LIFE K

For use with between-the-lens shutters at speeds from 1/50 to 1/400 sec.; 3 standard batteries used; 6-inch reflector; adjustable for various sized flashbulbs; standard socket; 3-cell battery case; adjustable case clamp; bayonet safety base; available for standard or tapered thread. Price $26. All accessories available.

King Life Liteweight Passive. Has Passive tripper with universal thread adapter for shutters with straight or tapered cable release socket. Similar features as Model K. Price, $9.95.

King Life Model. For the Leica or Contax cameras; recommended speeds for synchronization with focal



plane shutter, 1/40 to 1/500 sec.; 3-cell battery case; adjustable case clamp; synchronization built-in; remote control and extension flash outlets; 6-inch reflector to fit Leica or Contax. Price, $32. All accessories available.

MFR., Life Industries, Inc.

LEICA SYNCHRONIZED FLASH UNITS VIII, VIIIa

For use with the Leica camera; recommended speeds on focal plane shutter from 1/20 to 1/2000 sec.; uses 3 type D batteries; matte-finish inner surface on reflector; special baseplate for attachment to camera; booster spring to eliminate drag on shutter mechanism; external slider for selective synchronization. Model VII for Leicas D, E, F, and G; model VIIIa for Leica IIIc camera. Price, including tax and installation, $63.

MFR. E. Leitz, Inc.

MECHO

Mechanical synchronizer for between-the-lens shutters at speeds from 1/50 to 1/200 sec.; uses 2 medium batteries; 5-inch reflector adjustable to various lamp sizes; standard lamp socket. Also available as flashing units for cameras having built-in flash synchronization. Price, $7.51 for synchronizers; flashing unit, $4.90. Prices include tax.

MFR., Peak Photo Products Co.

MENDELSOHN SPEEDGUN CUSTOM BUILT MODEL

Magnetic synchronizer for all speeds with between-the-lens shutters; uses 2 size C batteries; 5-inch aplanatic Twinflector; adjustable for various bulb sizes; bayonet and standard lamp socket; extension and remote control outlets; no adjustments required; designed to operate on the body release of the camera. Price, Model 1040 for Contax, Model 1041 for Leica, and Model 1048 for Perfex,

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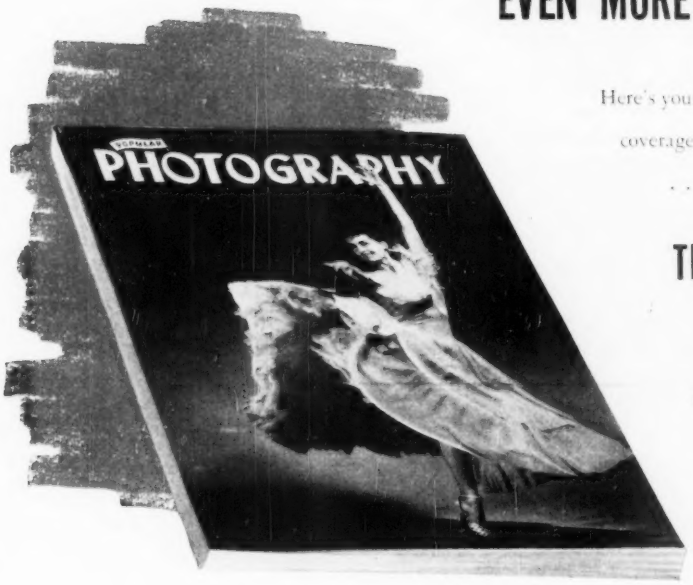

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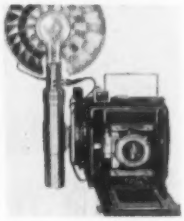
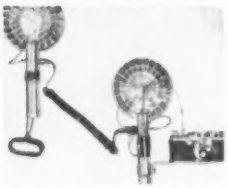
$35 including tax; Model 1051 for Automatic Rolleiflex, $35; Custom Built Model, $29.80.

MENDELSOHN SPEEDGUN MODEL E-4



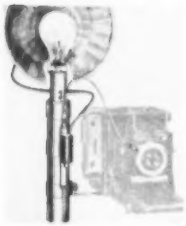
Synchronizes with between-the-lens shutters at speeds from 1/10 to 1/500 sec.; can be satisfactorily adapted to focal plane shutters on the Kardon, Bolsey Reflex, Speed Graphic, Exacta, Clarus, Foth Derby, and Robot cameras; recommended speeds for synchronization with focal plane shutters, 1/200 to 1/1200 sec.; uses three size D batteries; 7-inch aplanatic Twinflector; adjustable for various bulb sizes; combination bayonet and standard socket; pre-synchronized for all shutter speeds. Price, $29.80 including tax. Accessories include remote control, multi-flash, multiple reflector, etc.

MENDELSOHN SPEEDGUN E-1000 SERIES



Synchronizes with between-the-lens shutters at speeds from 1/10 to 1/1000 sec.; can be adapted to focal plane shutters of Contax, Leica, Clarus, Kardon, etc. when furnished with No. 207 Converter; uses two batteries; 5-inch Twinflector for flat lighting; adjustable for various bulb sizes; combination bayonet and standard socket; pre-synchronized for all shutter speeds. Price is either $29.80 or $39.95 including tax, depending upon arm and cable used. Accessories available same as above.

MENDELSOHN MODEL E-2



For use with between-the-lens shutters at speeds from 1/10 to 1/1000 sec.; can be used with focal plane shutters on Leica, Contax, and similar miniature cameras; recommended speeds on focal plane shutter, from 1/20 to 1/1200 sec.; 7-inch aplanatic Twinflector; adjustable to various bulb sizes; combination bayonet and standard socket; uses 3 large batteries; pre-synchronized for all shutter speeds. Price, $35 including tax. Accessories same as above.

MFR., Mendelsohn Speedgun Co., Inc.

RAY-O-FLASH SYNCHROMAT

Mechanical plunger-type synchronizer made of transparent Lucite material; utilizes plunger for connection to any shutter using cable release; adjustable by the user; outlet for connection to flashgun. Price, $12.50 including tax.

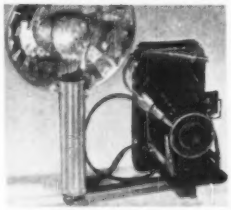
MFR., American Cinefoto Corp.

ROLLEI CUSTOM FLASH

Solenoid built internally; not internal points in shutter; custom built for each camera; for remote control flash on all shutter speeds with all normal delay flashbulbs; synchronizes for electronic flash; used with any 3-cell battery case; no need to remove tripper before putting camera back in carrying case. Price, $75.

MFR., Pacific Photo Products

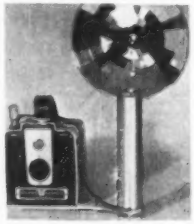
SERVICE FLASHMAKER



Synchronizes with between-the-lens shutters at speeds from 1/25 to 1/500 sec.; uses two medium batteries; 5-inch polished, faceted reflector; adjustable for various bulb sizes; standard socket; bulb ejector. Price, $7.97 including tax. Accessories include midget bulb adapter. Deluxe model with extension flash outlet, $9.85.

SERVICE SNAPFLASH

Mechanical synchronizer for between-the-lens shutters set at Instantaneous; uses 2 Type C batteries; 5-inch multi-faceted reflector; adjustable for various bulb sizes; standard lamp socket; synchronizes with most box cameras. Price, $4.42 including tax.

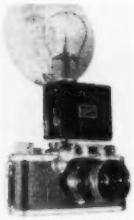


Service Model for the Brownie Hawkeye camera; mechanical synchronization with camera set at I; same features as Snapflash model, but has encircling clamp for the camera. Price, $4.42 including tax.

MFR., Service Photo Suppliers, Inc.

SIMS MODEL D-2

For use with Leica, Kardon, Nicca, and Canon cameras; synchronizes with focal plane shutter from 1/20 to 1/1000 sec.; uses four penlight battery



cells, for 6-volt operation; 4½-inch spun aluminum with etched, satin surface reflector; standard socket; slips on camera accessory clip; case contains warning pilot light and safety switch. Price, $28.50 including tax.

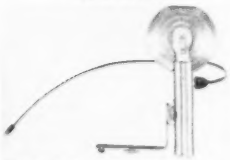
MFR., R. A. Simerl Mfg. Co.

SMEATON

For Speed Graphic and Graflex cameras; synchronized with curtain shutter at factory. Price for installation, $19.50 complete.

MFR., Smeaton Company

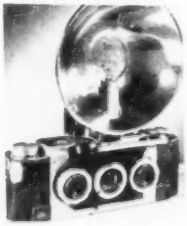
STERLING-HOWARD SOL-LITE



Mechanical synchronizer for between-the-lens shutters at speeds from 1/25 to 1/200 sec.; for all cameras with built-in synchronization or cable release sockets; uses 2 Type D batteries; 5-inch aplanatic reflector adjustable for various bulb sizes; standard lamp socket. Price, $8.95 including tax.

DIST., Sterling-Howard Corp.

ST 52 MODEL

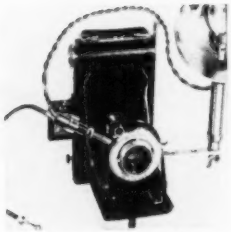


For use with the Stereo Realist camera only; synchronizes at speeds from 1 sec. to 1/25 sec.; uses 3 penlite batteries; has 5-inch reflector on combination reflector and battery case; bayonet socket; fits into clip on top of camera. Price, $9.75. Accessories include diffusion and flash shield; blue filter for reflector.

MFR., David White Co.

VICTOR SM SYNCHRONIZER NO. 63

Synchronizes with between-the-lens

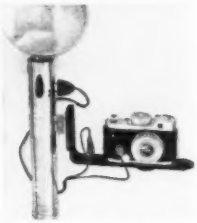


shutters at speeds up to 1/200 sec.; uses two penlite cells; has 5-inch polished spun aluminum reflector; for use with midget bulbs; synchronizes to 1/200 sec. with SM flashbulbs, and to 1/50 sec. with midget flashbulbs. Price, $3.25 plus tax. Accessories include auxiliary flash units, clamps, etc.

MFR. Jas. H. Smith & Sons Corp.

FLASHING UNITS

BEE BEE FLASH UNIT



For use with the Robot II camera and other Robot camera models having shutters with built-in synchronization. Price, $35 including tax.

DIST. Burleigh Brooks Co.

C.O.C. STANDARD

Nine models available for Ansco Pioneer, Rediflex, and Flash Clipper, Brownie Reflex, Kodak Duaflex, Target Brownie, Kodak cameras with built-in synchronization, and Spartus Full-Vue; includes aplanatic reflector; battery case; connecting cord; camera bracket. Prices range from $3.25 to $6.12.

MFR., Camera Optics Mfg. Corp.

FLASH KING CA

For shutters with built-in flash synchronization; battery case is 3 inches long, 1¼-inch diameter; adjustable 5½-inch reflector; uses 3 penlight batteries; socket adjustable to midget and standard base lamps; unit screws in camera tripod socket; no bracket required. Price, $7.75 including tax.

MFR., Western Photographic Mfg. Co.

GRAFLITE FLASHING UNITS

For use with Graphic-Graflex cameras and others having built-in flash synchronization; lightweight battery case; 5 or 7-inch reflectors; 3-position series-parallel switch; 5 identified outlets; automatic lamp ejector;

micromatic switch; right or left mounting; clamp; remote control outlet; provision for multiple battery case connections; right angle and platform brackets for use with miniature and reflex cameras having built-in synchronization. Prices: Model 2725, 2-cell case and 5-inch reflector, $25.95; Model 2727, 2-cell case, 7-inch reflector, connecting cord, $24.95; Model 2735, 3-cell case, 5-inch reflector, $27.45; Model 2737, 3-cell case, 7-inch reflector, $26.45.

MFR., Graflex, Inc.

HEILAND SYNCHRO-SPECIAL

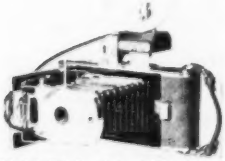
For use with all Kodak Synchro-shutters; uses 2 size D batteries; reflector adjustable for various bulbs; battery case; built-in cord; universal bracket. Price, $13.70. Accessories include all Heiland reflectors and multi-flash equipment.

MFR. Heiland Research Corp.

KALART COMPAK FLASH UNIT

Model CFK for use with Kodak and other cameras with built-in synchronization; uses 2 standard size C batteries; special 5-inch concentrating reflector; built-in Safety-First test lamp; for use with midget bulbs; bulb ejector; bayonet connecting cord; complete with Battery-Flector, extension bracket, $8.95 including tax.

Model CFPC for Zeiss, Voigtlander, Retina II, Monte Carlo and other European cameras with built-in synchronization; same equipment as Model CFK. Price, $8.95 including tax.

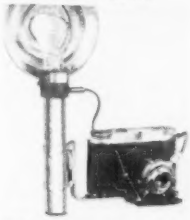


Model CFL for Polaroid Land camera only; attaches to accessory clip on camera with special bracket; same equipment as above model. Price, $8.95 including tax.

Model CFP for use with Zeiss, Voigtlander, and Monte Carlo cameras. Similar to Model CFK. Price, $8.95 including tax.

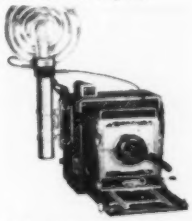
Model CFT for Kodak Tourist f/4.5 and f/5.6 only; attaches to accessory clip on camera with special bracket; same equipment as above model. Price, $8.95 including tax.

KALART MASTER FLASH UNIT



Model MFK for use with Kodak cameras with built-in synchronization; uses three standard size C batteries; 6-inch paraplanatic reflector; adjustable for various bulbs; special bayonet connecting cord; extension outlet. Price, including Master battery case with three standard cell batteries, angle extension bracket, etc. $14.50 including tax.

Model MFPC for Zeiss, Voigtlander, Retina I & II, Monte Carlo and other European cameras with built-in synchronization. Similar to above model. Price, $14.50 including tax.



Model MFUG-1 for use with press-type cameras with built-in synchronization; similar to the above model. Price, complete with Push Button Body Release, $14.50 including tax.

MFR. The Kalart Co.

KODAK FLASHOLDER

Designed for cameras with shutters having built-in synchronization; holds two type C batteries; lamp-ejector button. Price, $9.50 plus tax. Accessories include extension units, and extension cords.

MFR. Eastman Kodak Co.

KING LIFE DE LUXE FLASHER

For use with shutters having built-in synchronization; 2-cell chrome plated case; bayonet safety base; molded cords available to fit all type of built-in synchronization; 5-inch reflector. Price, $14.95. All King Life accessories available.

LIFE JUNIOR FLASHER

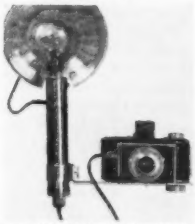
For shutters having built-in synchronization; battery case; 5-inch reflector for standard lamps; connecting cord to fit all Kodak flash shutters; standard outlet for extension flash; camera bracket. Price, $14.95. All Life reflectors and multi-flash equipment can be used and are available as accessories.

KING LIFE LITEWEIGHT

For cameras having shutters with built-in synchronization; battery case; reflector; connection cord for Kodak cameras; models available to fit foreign shutters with built-in synchronization; camera bracket. Price, $7.95.

MFR., Life Industries Corp.

MENDELSOHN FLASHER E



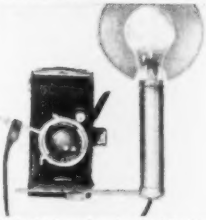
For use with all shutters having built-in synchronization; uses 2 size C batteries; 5-inch aplanatic Twinflector; adjustable for various lamp sizes; bayonet and standard sockets; extension outlets; camera bracket; connecting cord. Prices range from $15.75 to $21.50 including tax.

MENDELSOHN FOLDING SPEEDGUN SERIES 1200

Model 1215 for Ansco, Ciro-flex, Kodak, Polaroid Land cameras; Model 1217 for Exacta; Model 1235 for Monte Carlo and Prontor II; and Model 1235A for Compur and Prontor S shutters; uses 3 size C batteries; 5-inch aplanatic reflector; bayonet lamp socket; folding bracket; plug outlet; interchangeable cords. Price, $11.45 including tax.

Folding Speedgun Series 1400. Four models available as in Series 1200 and for same cameras; uses 3 size D batteries; 7-inch aplanatic reflector; stand lamp socket; folding bracket. Price, $14.95 including tax.

MENDELSOHN SPEEDGUN JUNIOR



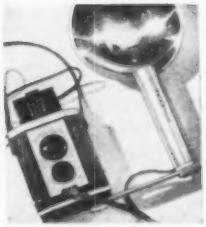
Mechanical synchronizer and flashing unit; synchronizes with between-the-lens shutters at 1/50 sec. with regular lamps and at 1/200 sec. with SM flashbulbs; available with connecting cord to fit most shutters with built-in synchronization; uses 2 size C batteries; 5-inch Spotflood reflector; adjustable for various bulb sizes; standard lamp socket; positive-action tripper; adjustable camera bracket. Price, for flashing unit, $9.95 including tax; for non-synchronized shutters, $7.50 to $9.95 including tax.

MFR., Mendelsohn Speedgun Co., Inc.

SERVICE FLASH UNITS

Model for use only with the Kodak Duaflex camera; uses two medium cells; has 5-inch polished reflector; adjustable for various bulb sizes; standard socket. Price, $4.42 including tax.

Model for use with Kodak and Wollensak shutters having built-in synchronization. Price, $7.13 including tax. Deluxe unit with extension outlet, $9.36. Accessories available include midget bulb adapter.



Brownie Reflex Model similar to above. For use with the Brownie Reflex only. Price, $4.42 including tax.

Ansco Pioneer Model for use with the Pioneer camera only; uses two medium cells; has 5-inch polished reflector; adjustable for various bulb sizes; standard socket; bracket fit over top of camera. Price, $3.25 including tax.

Ansco Flash Clipper Model similar to above. For use with Flash Clipper only. Price, $4.42 including tax.

Model for Brownie Flash 620 only. Bracket attaches over camera front; battery case is close to camera. Price, $3.86 including tax.

Model for use with the Ansco Rediflex only. Similar to the above model; bracket attaches to side of camera. Price, $3.86 including tax. Midget bulb adapter available for both models.

MFR. Service Photo Suppliers, Inc.

REMOTE FLASH UNITS

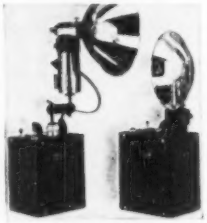
FOTO-DYNE

Remote control unit weighing 3 pounds, 6 ounces; for firing one or more flash units as far as 250 feet from camera without extension cords or cables; all controls on top of unit. Price, $27.65.

MFR. Globe Industries, Inc.

HEILAND FOTOEYE

Electronic remote control flash unit with photoelectric cell; used for extension flash photography with a "master" flashbulb on or near the camera. Price, $51.50. Accessories in-



clude all Heiland reflectors and multiflash equipment. Reflectors are optional at additional cost. Speed Beam reflector used with socket adapter.

MFR. Heiland Research Corp.

SERVO FLASH

Remote control unit using photoelectric cell to synchronize the firing of the flashbulb without using cords; all controls on outer panel; has 6½-inch reflector; adjustable for various

bulb sizes; standard socket. Price, $22.75 plus tax.

MFR. Era Tool & Engineering Co.

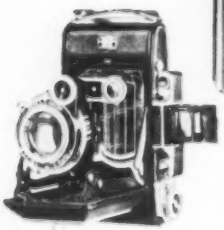
SR TELEFLASH

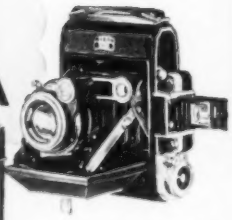
Photoelectrically-controlled flash synchronizer; automatically synchronizes the firing of the inserted flashbulb with the flash unit on the cam-

era; no external batteries or wiring; responds only to pulses of light such as photo flashbulbs; no controls required as sensitivity is always at its maximum; insertion of flashbulb puts unit into operation. Price, $39.72 including tax.

MFR., Strobo Research Labs.

YOU'LL GET *Super Results* with a SUPER IKONTA





Super Ikonta A, 1¾"x2¼" auto-focusing range-finder camera with f/3.5 Zeiss Tessar lens. Speeds to 1/300 sec.

Super Ikonta B, 2¼"x2¼" auto-focusing range-finder camera with f/2.8 Zeiss Tessar lens. Speeds to 1/400 sec. Synchronized.

Super Ikonta C, auto-focusing range-finder camera with f/3.5 Zeiss Tessar lens. Takes 8 pictures 2¼"x3¼" or 16 pictures 1¾"x2¼". Speeds to 1/400 sec. Synchronized.

Here's why...

First, your mind is free to concentrate on the picture, because a Super Ikonta operates with astonishing ease and simplicity. Second, your negatives will be needle-sharp—the auto-focusing range-finder sees to that! Third, its coated Zeiss Tessar lens enables you to get many shots a less capable lens would muff.

See them at your dealer's. Write for literature.

CARL ZEISS, INC., Dept. C-17-5, 485 Fifth Ave., New York 17, N.Y.

Zeiss Ikon Cameras

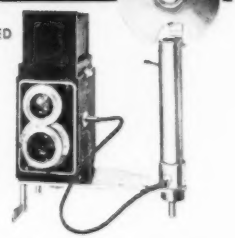
NOW AVAILABLE!

DE LUXE Mendelsohn SPEEDGUNS

Reg. U.S. Pat. Off.

for REFLEX CAMERAS

WITH SYNCHRONIZED SHUTTERS



$19.50

#1015 AD—American-made cameras.

#1035 AD—Foreign-made cameras with Compur and Prontor S shutters.

- Sturdy platform bracket.
- Deep 5" reflector with twin sockets for all size bulbs.
- Highly polished chrome finish.

Ask your dealer to show you the complete line of Mendelsohn Speedguns and accessories.

MENDELSOHN

SPEEDGUN CO., INC. • BLOOMFIELD, N. J.

ELECTRONIC FLASH UNITS

Portable and Semi-portable Units of Interest to Amateurs

ACOUSTICRAFT

RELIANCE THRIFT-LITE AC-40

Semi-portable unit weighing 4 lbs.; a-c only; for use only with X setting on mechanical and built-in synchronizers; adapted for focal-plane shutters; Amglo Kem-Lite tube; 20,000 flashes per tube at 6500 K color temperature; 1/1000 flash duration; 10 sec. between flashes; 7-inch reflector; 15 feet of cord; no moving parts; tube operates on 450 volts. Price, $39.95, including tax. Accessories include L-brackets and cords for popular cameras, synchronizer for Leica.

RELIANCE THRIFT-LITE AC-45

Same features as above; can be used with shutters having either 5 milli-second built-in delay or X setting. Same accessories as above. Price $44.95, including tax.

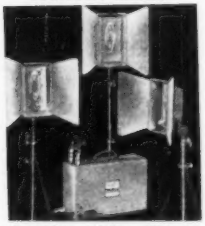
RELIANCE THRIFT-LITE AC-45 L

Same features as above; for use with shutters having 15 milli-second built-in delay. Same accessories as above.

MFR., Acoustricraft Corp.

AMERICAN CINEFOTO

RAY-O-FLASH ECONOMY MODEL



Semi-portable weighing 39 lbs.; a-c and battery operation; 2 chargeable batteries; for magnetic and built-in synchronizers; Krypton flashtube; 10,000 flashes per tube at 6000 K color temperature; 1/5000 sec. flash duration; 6 sec. interval between flashes; 3 flash tubes; 3 reflectors with built-in modeling lights in two; barndoors for all three; synchron attachment. Price, $150 including tax.

RAY-O-FLASH DE LUXE TRIPLE UNIT

Semi-portable unit weighing 12 lbs.; a-c only for use with all types of shutters; adapted for focal-plane shutters; Amglo Sunflash V-8 tube; 25,000 flashes per tube at 6500 K color temperature; 1/15000 flash duration; with 7 sec. interval between flashes; 14-inch parabolic reflector with 50-watt focusing lamp; 15 feet of cord; stand; 1, 2, or 3 light operation. Price, with 1 light, $115, tax included. Available accessories include booster pack, light stands, Fresnel photo-spot, giraffe boom light, photo cell.

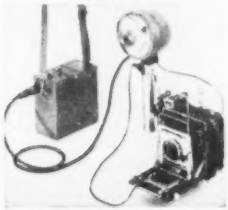
MFR. American Cinefoto Corp.

AMERICAN SPEEDLIGHT

ASCOR 180-C

Portable unit weighing 18 lbs.; 1 wet cell battery; a-c and battery operation; battery can be charged; for use with mechanical, solenoid, and built-in synchronizers and focal-plane shutters; G-E FT220 and FT210 flash tubes at 6500 K color temperature; flash duration of 1/5000 sec. with 5 sec. interval between flashes; 7-inch pan or sealed beam reflector; 6 or 10 feet of cord. Price on request. Accessories include case, charger, battery meter, stands, reflectors.

ASCOR 90-D



Portable unit weighing 13 lbs.; interchangeable, chargeable wet cell battery; for use with mechanical, solenoid, and built-in synchronizers and focal plane shutters; G-E FT220, FT210 or Syl. flashtube at 6500 K color temperature; flash duration of 1/5000 sec. with 3 sec. interval between flashes; 7-inch pan or sealed beam reflector; light unit attaches on regular battery case. Price on request. Accessories are carrying case, charger, light units, etc.

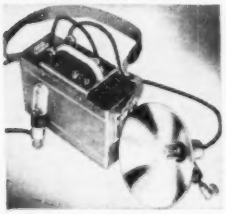
ASCOR 270-C

Portable unit weighing 25 lbs.; interchangeable wet cell battery; a-c or battery operation; chargeable; for use with mechanical, solenoid, and built-in synchronizers and focal-plane shutters; G-E FT220 and FT210 flash-tubes; 6500 K color temperature; flash duration of 1/3000 sec. with 6 sec. interval between flashes; choice of 7-inch pan or sealed beam reflector; 6 or 10 feet of cord. Price on request. Accessories include cases, charger, extension light, synchronizers, etc.

MFR., American Speedlight Corp.

AMGLO

PORTABLE FLASH DC 2552-A



Portable unit weighing 10½ lbs.; 2 interchangeable, rechargeable, wet cell batteries; for use with all shutters; adapted for focal-plane shutters; uses Amglo 5804X tube; 10,000 flashes per tube; 6500 K color temperature; one or two lights can be used; two units can be connected to give 2, 3, or 4 light operation; flash duration of 1/5000 sec. with 1 tube, 1/10000 sec. with 2 tubes; 7-8 sec. interval between flashes; 7¾-inch aluminum alzac specular reflector; 10 feet of cord; carrying case included; 600 flashes from one battery charging. Price on request. Available accessories include charger, extra batteries, extension lights, shutter cables, battery case adapters, extra condensers. Also available in a kit for home assembly.

TWIN-LIGHT AC 2-85

Semi-portable 2 light unit weighing 16 lbs.; a-c operation only; for all types of shutters and synchronizers; adapted for focal-plane shutters; uses Amglo 54R4X tubes; 10,000 flashes per tube; 6500 K color temperature; flash duration of 1/2500 sec. with 1 tube, 1/5000 sec. with 2 tubes; 6 sec. interval between flashes; Amglo Ultra reflector, 7¾-inch diameter; 16 feet of cord; 2 units may be connected for operation of more lights. Price on request. Available accessories include collapsible stands attaching to unit, cable for connecting two units. Available in kit form for home assembly.

PORTA-LITE DC 66-2

Portable unit weighing 7½ lbs.; 2 rechargeable wet cells; battery operation only; for all shutters and synchronizers; adapted for focal-plane shutters; uses Amglo 56JZZ tube; 10,000 flashes per tube; 6500 K color temperature; flash duration of 1/1500 sec. with 1 tube, 1/3000 sec. with 2 tubes; 12 sec. interval between flashes; Amglo 7¼-inch aluminum reflector; 7 to 12 feet of cord; carrying case included; 1 or 2 light operation. Price on request. Available accessories include extension lights mounted in reflector. Available in kit form for home assembly.

POWER LITE AC 66-2

Semi-portable unit weighing 14 lbs.; a-c operation only; for all shutters and synchronizers; adapted for focal-plane shutters; uses Amglo 68N9T, 78N9T, 88N9T, or 56JZZ tubes; 10,000 flashes per tube; 6500 K color temperature; flash duration of 1/1500 sec. with 1 tube, 1/3000 sec. with 2 tubes; 7 to 14 sec. interval between flashes; Amglo 7¼-in aluminum reflector; 10 to 14 feet of cord; 1 or 2 light operation; 2 units can be connected for operation of more lights. Price on request. Available accessories include extension lights mounted in Amglo reflectors, and collapsible stands mounted to units. Available also in kit form for home assembly.

QUAD-LIGHT AC 4-85

Semi-portable unit weighing 23 lbs.; a-c operation only; for use with all shutters and synchronizers; adapted for focal-plane shutters; uses Amglo 54R4X tube; 10,000 flashes per tube; 6500 K color temperature; flash duration of 1/5000 to 1/2500 sec.; 12 sec. interval between flashes; 7¾-inch Amglo Ultra reflector; 16 feet of cord; selector switch controls multiple light operation. Price on request. Available accessories include collapsible stands attaching to unit, extension lights mounted in Amglo reflectors. Also available in kit form for home assembly.

MFR., Amglo Corp.

ELECTRONICS ASSOCIATES

CELLUX MARK 1

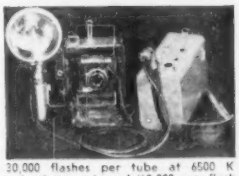
Portable unit; combination a-c and battery operation; designed for use with shutters with built-in synchronization; adapted for some focal-plane shutters; uses G-E FT110 tube; 5,000 flashes per tube, 6500 K color temperature; flash duration 1/500 sec.; 8 sec. interval between flashes; 5½-inch reflector; 6 feet of cord. Price on request. Available accessories include carrying case, adapters for synchronizers.

MFR., Electronics Associates, Inc.

ELECTRONIC SPECIALTIES

ADD-A-FLASH AC-Batt.

Portable 13½-lb. unit with 2 chargeable wet cell batteries; combination a-c and battery operation with mechanical, magnetic and built-in synchronizers; also focal-plane shutters; FT220 and FT403 flash tubes with 30,000 flashes per tube at 6500 K color temperature; 1/10,000 sec. flash duration, with 8 sec. interval between flashes; sealed beam and 18-inch studio reflectors; 7- and 20-foot cords; shoulder strap; Price, with flashgun mounting sealed beam flash-tube, $180.



ADD-A-FLASH MODEL I

Semi-portable 9-lb. unit, a-c operation only with the same synchronizers and shutters as above; G-E FT220 or FT403 flash tubes with 30,000 flashes per tube at 6500 K color temperature; 1/10,000 sec. flash duration with 5 sec. interval between flashes; 18-inch reflector with FT403 tube; 20-foot cord; charge indicator; fused plug; built-in modeling lamp on FT403. Price, with FT220, $89.50; with FT403, $115. Accessories include Booster-Flash extension unit.

MFR. Electronic Specialties, Inc.

EPCO

PRO-DELUXE PD-40

Portable unit weighing 10½ lbs.; rechargeable wet cell battery; for shutters with built-in synchronizers or magnetic solenoids; 2 units can be connected to double light output; uses B-100 tube; 50,000 flashes per tube; 9 sec. interval between flashes; adapter for firing ordinary magnesium flashbulbs; battery charger; 7-inch aplanatic reflector; power pack housed in genuine leather-covered wood case with brass hardware, leather shoulder strap; 4 models. Price on request.

MFR., Epco Products, Inc.

HEILAND

HEILAND STROBO-LITE P-2

Portable unit weighing 7 lbs.; uses 2 chargeable batteries; for use with solenoid, mechanical and built-in synchronized shutter synchronizations; G-E FT220 flashtube with unlimited flashes per tube at 7000 K color temperature; 1/1500 sec. flash duration with 12 sec. interval between flashes; sealed-beam lamp. Price, $165. Accessories include SB-3 20-foot extension lamp, $49.50; battery charger, $13. Prices do not include tax.

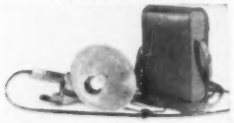
MFR., Heiland Research Corp.

KING-SOL PORTABLE

Portable unit weighing 19 lbs.; uses 3 chargeable batteries; charger included in unit; combination a-c and

battery operation; for use with mechanical and solenoid synchronizers and shutters with built-in synchronization; 125 watt-second output; extension flash outlet; complete with lamp, holder, reflector, and connecting cord. Price, $99.50 including tax.
DIST., Sterling-Howard Corp.

LENNOX
SPEEDLITE 1AC5



Lightweight unit for a-c use only with mechanical synchronizers and built-in synchronized shutters; special G-E FT210 flash tube with 10,000 flashes per tube at 6500 K color temp.; 1/5000 sec. flash duration with 5 sec. interval between flashes; up to 20-inch reflector available; carrying case included; weight, 4½ lbs. Price, $112. Accessories include modeling lights, etc.

SPEEDLITE 2AC5

Portable studio unit weighing 10 lbs.; this model has the same operating requirements and features as the above model; uses 2 G-E FT210 flash tubes with 10,000 flashes per tube; Price, including carrying case, $255.

PRESSMAN TWINLITE
MODEL BA-5

Portable unit weighing 7 lbs.; uses 2 chargeable wet cells for use with the built-in synchronized shutters; uses G-E FT210 flash tube with 10,000 flashes per tube at 6500 K color temp.; has a 1/5000 sec. flash duration with 10 sec. interval between flashes; 8-inch ellipsoidal reflector with 6-foot cord; Price, including carrying case, $154. Extension lights available as accessory. Model BA-20 is for solenoid synchronizers.
MFR., Lennox Industries, Inc.

LIGHTNING-LITE
LIGHTNING-LITE BP

Portable 14 lb. unit, 2 interchangeable, chargeable wet cell batteries; battery only operation with mechanical, solenoid, and built-in synchronizers; flash tube with duration of 1/15,000 sec. with 7 seconds interval between flashes; large, specially-designed reflector. Price for complete unit, $189.75 including tax.

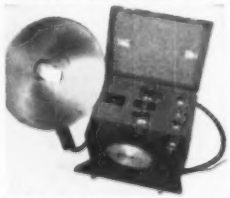
LIGHTNING-LITE ACP

Portable 14 lb. unit that has same features and characteristics and features of BP model; a-c operation only; price, complete, $189.75. Model ACP-2, a 2-lamp model, $252.25.

LIGHTNING-LITE MODEL AC-PC

Portable unit weighing 18 lbs.; for a-c use only with mechanical synchronizers and shutters with built-in synchronization; flashtube has 10,000 flashes with color temperature correct for daylight-type color film without filter; 1/15,000 sec. flash duration with 7 sec. interval between flashes; 6 or 8-inch reflector; unit built in metal carrying case with shoulder strap; photo-cell or shutter triggering. Price, one-lamp model, $165 plus tax; 2-lamp model, $220 plus tax.
MFR. Lightning-Lite Co.

MacLEOD & HANOPOL
HELIOFLASH MODEL 124



Portable 23-lb. unit; operates a-c only with mechanical, magnetic, and built-in synchronizers; G-E FT14 flash tube with 10,000 flashes per tube at 6500 K color temp.; 1/5000 sec. flash duration with 15 sec. interval between flashes; 11¼-inch aluminum reflector; 20-foot cord; synchronized firing by means of a calibrated dial; 60° light field. Price, $225 including tax. Accessories include remote firing control with photocell unit, additional lamps and reflectors, etc.
MFR. MacLeod & Hanopol

PHOTOGRAPHIC PRODUCTS
CHROMO-FLASH COMMANDER

Semi-portable unit weighing 12 lbs.; for a-c use only with solenoid and mechanical synchronizers and shutters with built-in synchronization; uses G-E flashtube with 6800 K color temperature; 1/5000 sec. flash duration with 3 sec. delay between flashes; 10-inch Alzac reflector; 20-foot power cord; power pack and light in one unit. Price, $176 including tax. Accessories include barn doors, remote control light.

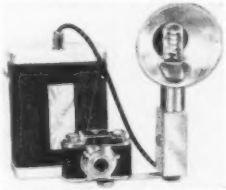
CHROMO-FLASH A-102

Semi-portable, weighing 26 lbs. for a-c use only with solenoid synchronizer and built-in synchronized shutters; uses G-E flash tube at 1/10,000 sec. flash duration with interval between flashes at 5 sec.; 15-foot cord; will operate up to 3 lights. Price, with one R-4 reflector, etc., $267.42 including tax. Extra lamps available at $42.42 including tax.
MFR. Photographic Products, Inc.

RELIANCE ELECTRONIC
BANTAM D-20

Portable unit containing 2 chargeable wet cell batteries; battery operation only with mechanical, magnetic, and built-in synchronizers; also with Leica, Mercury II, and Graflex D focal plane shutters; Amglo 5804X flash tube with over 10,000 flashes at 6500 K color temp.; approx. 1/5000 sec. flash duration with 15 sec. interval between flashes; 7-inch prefocused reflector; 4-foot cord; carrying case; all operating controls are on the gun. Price, including charger unit, and tax, $88.37.
MFR., Reliance Electronic Mfgs., Inc.

RULISON
SUN-LITE MODEL B

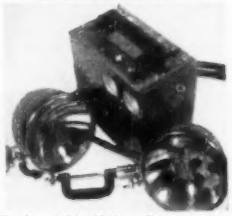


Portable unit weighing 6½ lbs.; head weighs 15 oz.; uses 6 dry cell batteries; for use with mechanical and solenoid synchronizers and shutters with built-in synchronization; Sunflash flashtube with 10,000 flashes per tube at 6500 K color temperature; 1/10,000 sec. flash duration; about 10 sec. interval between flashes; special 5-inch alchemized reflector; 30-inch cord; power pack in carrying case; adjustable for 2 to 20 milli-seconds delay. Price, $46.61 including tax. Extension light, $29.11; power booster, $15.11.
MFR., Rulison Photo Products.

SPEEDOTRON
SPEEDOTRON MODEL 1108

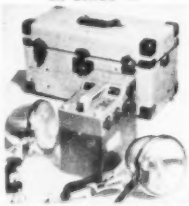
Portable unit weighing 8 lbs.; uses 2 wet cell batteries; can be charged; for use with mechanical synchronizers and shutters with built-in synchronization; Amglo or Kemlite flashtube with 20,000 flashes per tube at color temperature of 6800 K; 1/1200 sec. flash duration with 8 to 10 sec. interval between flashes; 7½-inch 60-degree Alzack reflector 6-foot cord; leather carrying case; selinium rectifiers operate at 1000 volts. Price, $145 including tax. Extension units available as accessories.
MFR., The Speedotron Co.

STROBO RESEARCH
SR STROB MODEL A



Semi-portable 18-lb. unit; a-c operation only with mechanical and built-in synchronizers; and focal plane-plane shutters at low speeds; G-E FT200 flash tube with over 20,000 flashes per tube at 7000 K color temp.; 1/5000 sec. flash duration with 6 sec. interval between flashes; 5½-inch sealed beam reflector; 20-foot cord; carrying case; electronic triggering; two lamps; quick-change clamps; built-in photoelectric triggering. Price, $291 including tax. Accessories include SR stands, Microscope illuminator.

SR STROB III



Semi-portable unit weighing 24 lbs.; for 120 volts a-c use; 60 cycles; SR Strob III power pack; 2 SR LB100 sealed beam flashlamps with SR Universal Quick Change clamps and fittings; 15-foot a-c cord; 15-foot trip cord; 3-foot shutter cord; CE84R Photo Tube; spare fuses; 1/5000 sec. flash duration when one lamp is used; 1/10,000 sec. duration when both lamps are used; six sec. interval between flashes; uses G-E FT220 and FT403 lamps with over 10,000 flashes at 7000 K color temperature; built-in photo tube permits multiple operation without use of connecting cords as it acts as remote control unit. Price, $275 plus tax.

SR MONOSTROB SPOT MS100

Similar to MB100 model except has Fresnel lens in focusing head; G-E FT210 flashtube; 50T8-22DC 50-watt modeling light; CE84R photo tube; yoke and knobs; 15-foot trip cord; 15-foot a-c cord; 2 spare fuses. Price, $178 plus tax.

SR MONOSTROB MB100

Sealed beam unit includes G-E FT-220 flashtube; CE84R photo tube;

"DOUBLE or MORE LIGHT"

(Watt Second for Watt Second)

NOT A CLAIM— A BONAFIDE GUARANTEE!

AMGLO Speedlight Units

In back of this remarkable and almost unbelievable guarantee, you will find the years of research, engineering and electronic manufacturing experience that produced the famous Amglo Self-Ionizing Flash Lamp. This is the original spiral type lamp, so widely adopted by manufacturers of high efficiency portable speedlight units, marine buoys, traffic and aviation signals.

Featuring the open-end spiral, and utilizing the entire lamp globe to provide an unlimited reservoir of Xenon gas . . . it offers a greatly extended life of full strength flashes (thousands of flashes from every lamp), as compared with other types of electronic flash lamps on the market.

It is this lamp—mounted in a newly developed, high efficiency reflector—plus a circuit providing many new and advanced features, that gives you assurance of a genuine guarantee of "Double or More Light" in every flash . . . and, many more flashes from every lamp.

PORTABLE FLASH UNIT (55 Watt Second) Model DC 2552-A

Model DC 2552-A is the unit illustrated above. With 600 or more flashes from each battery charge, it is simple to see where this unit quickly pays for itself in convenience and flash bulb savings and your **plus value** is the improved quality of pictures you make . . . pictures with a new sparkling quality and wider tonal range. The Model DC 2552-A offers you the versatility of one or two lights in a convenient carrying case weighing only 9¼ pounds. It measures only 1"x10¼"x6¾". At any time you may choose, you may add another capacitor to double the power, converting your DC 2552-A into a Model DC 2552-B.

PORTABLE FLASH UNIT (110 Watt Second) Model DC 2552-B

To all appearances the Model DC 2552-B is identical to the illustration above. The essential difference being an added capacitor to that of the DC 2552-A model, providing double the power, for daylight color film or black and white work where small diaphragm apertures are desired. This model provides more than adequate light output for practically all amateur and professional work. Same size as DC 2552-A but weighs 12 pounds.

NEW Four-light Portable Model DC 2554

This new Amglo development, permitting the use of 1, 2, 3 or 4 lights from a portable unit, is unquestionably the most efficient and versatile flash unit ever devised. To all appearances the DC 2554 looks identically the same as illustration above, except for two additional sockets and a selector switch needed in the use of various light combinations. Models DC 2552-A and DC 2552-B may be converted at any time to the DC 2554 four-light model at the Amglo factory for a very reasonable charge.

Other Amglo Flash Units

Amglo Porta-lite Model DC 66-2 is a light-weight, low voltage, portable flash unit using either one or two of the high efficiency, low voltage Amglo flash tubes No. 5642Z.

Amglo Power-light Model AC 66-2
Similar to above except for A.C. operation only.

Amglo Power-light Model AC-130-2
Similar to above A.C. unit, but double the power.

Amglo Twin-light Model AC 2-85
A two light home or studio unit using Amglo 54R4X flash tube. Provisions for adding more power included.

Amglo Quad-light Model AC 4-85
A high power 4-light studio or home unit. Selector switch is provided so that one, two, three or four lights may be used, as required.

Accessories available for above A.C. units include a collapsible lamp stand which attaches to unit. These units are the last word in design and performance and provide many exclusive Amglo features. They are **very** reasonably priced and carry the guarantee and service policy of a responsible organization.

Amglo Speedlight Units are years ahead in electronic flash performance (**write, wire or phone for complete details.**)

PREPARE NOW—FOR THE 1950 AMGLO SPEEDLIGHT CONTEST! 1000 Cash and Equipment Prizes

Any picture you take or have taken with an Amglo flash tube is eligible for one of the 1000 prizes in the 1950 Amglo Speedlight Contest. There are no restrictions. You may be amateur or professional and you may live anywhere in the world. Classifications include portraits, ultra speed action, sports, color, flash fill-in and others.

If you have a flash unit equipped with an Amglo lamp or contemplate obtaining one, send at once for entry blank and complete information.

The many cash and equipment prizes that will be awarded are a token of our appreciation to the tens of thousands of Amglo Flash Lamp users throughout the world. The pictures will be helpful to us too. Many will be published in leading magazines and exhibited in traveling salons with proper credit being given to the maker. This will acquaint many others with the modern magic of Amglo Speedlight and its unquestioned superiority to other types of lighting.

AMGLO CORPORATION

4234 Lincoln Avenue, Chicago 18, Illinois

yoke and knobs; 15-foot trip cord; 15-foot a-c cord; 2 spare fuses; instruction manual; no modeling light; a-c outlet in housing. Price, $149, plus tax.

SR MONOSTROB FLOOD MF100

Equipped with 20-inch reflector; G-E FT403 flashtube, 60T6½DC 60-watt modeling light; CE84R photo tube; yoke and knobs; 15-foot trip cord; 15-foot a-c cord; 2 spare fuses and instruction book. Price, $178, plus tax.

MFR., Strobo Research Corp.

TRIUMPH

TRIUMPH REPEATING FLASH 60F

Portable unit weighing 8½ lbs.; uses 8 size D dry cells; for battery use only with built-in synchronized shutters with 5 to 20 milli-second delay and for mechanical synchronizers; Sunflash No. 1 flashtube with 10,000 flashes per tube at 6800 K color temperature; 1/5000 sec. flash duration with 10 sec. delay between flashes; 6-inch ellipsoidal reflector with 48-degree spread; 54-inch cord; [illegible]-watt second output. Price, $110 including tax.

TRIUMPH REPEATING FLASH 60S

Similar to Model 60F in appearance and features; for battery use only; for use with solenoid and mechanical shutters using standard flashguns, and for shutters having built-in synchronization. Price, $110 including tax.

TRIUMPH POWER FLASH 80

Semi-portable unit weighing 9 lbs.; for a-c use only with mechanical synchronizers and shutters with built-in synchronization having X, F, or M settings; Sunflash M5 flashtube with 10,000 flashes per tube at 6500 K color temperature; 1/350 sec. flash duration with 30 sec. interval between flashes; 6-inch ellipsoidal reflector with 48-degree spread; equipped with device to act as remote control unit. Price, $99 including tax.

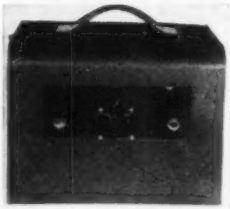
TRIUMPH POWER FLASH 70

Similar to Model [illegible]; uses Sunflash M5 flashtube with 1/1000 sec. flash duration with 10 seconds interval between flashes. Price, $79 including tax.

MFR., Triumph Mfg. Co.

URELL

SUPER LUMEN AA-2



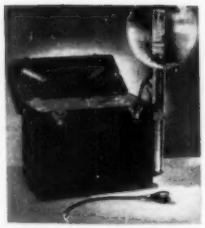
Semi-portable unit weighing 22½ lbs.; a-c operation only with mechanical and built-in synchronizers; G-E FT220 flash tube with 10,000 flashes per tube at 5950 K color temp.; 1/2500 flash duration with 7 sec. interval between flashes; built-in sealed beam reflector; 15-foot cord; carrying case; provision for use of two bulbs. Price, $179.50 plus tax. Extra assembly with wiring at $37.50 plus tax.

MFR. Urell, Inc.

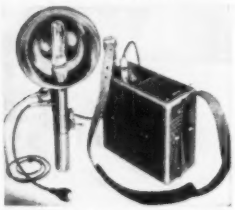
SYLVANIA

SYLVANIA ELECTROFLASH MODEL R1140

Portable unit operating on a-c only with mechanical and built-in synchronizers; R4330 flash tube with over 30,000 flashes per tube; 1/5000 sec. flash duration with 6 sec. interval between flashes; 11-foot permanently connected cord; 7 7/8-inch reflector; gun barrel; 1-foot trip cable. Price, $100 including tax.



SYLVANIA ELECTROFLASH MODEL R1142



Portable unit; battery operated, self-contained model; for use with mechanical and built-in synchronizers; focal plane when set for Time; R4330 flash tube with 10,000 flashes per tube; 1/5000 sec. flash duration with 10 sec. interval between flashes; 12-in. gun barrel; 8-inch reflector; battery rechargeable; price, $190 plus tax. Accessories include Photo-tube Triggering mechanism.

MFR., Sylvania Electric Products Inc.

like **Adam**
needed **Eve...**
your **coated** lens
needs an *Ednalite*
DURAKLAD
COATED FILTER

the best filter that money can buy
– at the new, lowest prices.

Precision optical glass—both sides coated—in the amazing *DURAKLAD* rim. At your favorite dealer.

We have a brand new descriptive leaflet for you — at no charge.

Manufactured by EDNALITE Optical Co., Inc., 200 North Water Street, Peekskill, N.Y.

NEW 1950 *RAY-O-FLASH* DELUXE TRIPLE UNIT
THE LIGHTWEIGHT CHAMPION WITH HEAVYWEIGHT POWER

A STUDIO UNIT FEATURING COMPLETE PORTABILITY

Top and case of solid mahogany. Weight ONLY 12 lbs. Comes with 1 Deluxe 14" round reflector complete with flash tube, focusing bulb and stand.

Complete versatility. Use in studio, "on location" or for home photography. Flashgun available. Safe, dependable professional unit, unconditionally guaranteed.

1 FLASH EVERY 7 SECONDS

Compare price and performance with any other light unit.

SAVE BY ORDERING DIRECT

Write today for more information

COMPLETE WITH 1 LIGHT UNIT
$115.00
W/2 Lt. Units: $150
W/3 Lt. Units: $185
Prices incl. tax

AMERICAN CINEFOTO CORP.
1560 B'WAY. N. Y. 19, N. Y. • DEPT. A

PREPARED DEVELOPERS

ACE

Ace-72 M.Q. Tubes. For paper and film; med. grain; normal emulsion speed; temp. tolerance 75°; normal shadow detail. Price, $.06 per tube to make 24 oz.
MFR., Ace Photo Laboratories.

ALBURGER

Devel-1. For film; concentrate solution; physical-chemical development; very fine grain; rapid dev.; normal emulsion speed; extreme shadow detail. Price, qt. bottle, $.85; gal. bottle, $2.50.

Devel-2. For film; similar features as above; dev. time 6 min.; repienish with fresh developer; concentrate solution. Price same as Devel-1.

Devel-5. For film; concentrate solution; combination physical-chemical dev.; fine grain; increased emulsion speed; extreme shadow detail. Price, same as above.

Devel-6. For paper; concentrate solution; fine grain; cold tones; normal emulsion speed; contrasty; fine shadow detail; can be used for films; dilute 1-12 for paper; 1-24 for film. Price, $.75 for 8 oz. bottle; $1.35 for 16 oz.; $4.50 for 1 gal.

Devel-7. For paper; concentrate solution; chemical dev.; warm tones; 8 oz. makes 3 qts. Price, $.75 for 8 oz. bottle; $1.35, 16 oz.; $4.50, 1 gal.
MFR., Alburger Research Prod. Co.

ANSCO

Ansco 17. For film; chemical dev.; fine grain; normal emulsion speed; soft-working; gradual dev.; dry. Prices, ½ qt., $.30; ½ gal., $.40; 1 gal., $.65.

Ansco 17A Replenisher. For Ansco 17 developer. Prices: 1 qt., $.35; 1 gal., $.70.

Ansco Permadol. For film; chemical dev.; dry; medium grain; moderately rapid dev.; normal emulsion speed. Prices in packages: 1 gal., 3½ gal., 10 gal.

Ansco Ardol. For paper; chemical dev.; dry; warm tones. Available in 1 qt., ½ gal., and 1 gal. packages. Prices on request.

Ansco Finex. For film; in solution; chemical dev.; very fine grain; gradual dev.; normal emulsion speed. Prices: 1 qt., $1.80; replenisher, ½ pt., $.75.

Ansco Vividol packets. For film and paper; dry; chemical dev. Price 3 packets, $.35.

Ansco Vividol. For paper; dry; chemical development; cold tones. Available in 1 qt., ½ gal., 1 gal., and 5 gal. packages.

Ansco Color Film Developing Outfit. For Ansco Color film; contains all necessary chemicals to process Ansco Color film; includes 6 chemicals. Prices, 1 qt., $3.05; ½ gal., $3.90; 1 gal., $6.

Color Printon Developing Outfit. Contains the 6 necessary chemicals to process Ansco Printon film to produce color prints. Prices, 1 qt., $3; ½ gal., $4.20; gal., $7.35.
MFR., Ansco.

DECO

Deco ABC. For film; single solution type; sensitizer-activator dev.; medium grain; rapid development time; film speed increasing developer; increased emulsion speed; good shadow detail; long keeping quality. Price, 3 qt., $3.
MFR., Development Eng. Co.

DR. CHARLES

Dr. Charles G-9. For film; in solution; combination physical-chemical dev.; fine grain; gradual dev. time 11 min.; normal emulsion speed; produces negative with both silver and stain image. Price, 1 qt., $1.65.
MFR., Ace Photo Laboratories.

DU PONT

53-D All Purpose Developer. For films and paper; dry; chemical dev.; medium grain; rapid dev.; increased emulsion speed; contrasty; produces brown image on du Pont Warmtone paper. Available in units to make stock solutions of 1 qt., 2 qts., and 1 gal.

54-D Cold Tone. For paper; dry; especially cold tones; contrasty; for blue-black image color on "Apex" contact paper. Available in units to make stock solutions of 1 qt., 2 qts., and 1 gal.

55-D Standard Paper Developer. For paper; dry, ready to mix; warm tones; normal gradation; recommended for use with "Velour Black" and "Varigam" papers. Available in units same as above; also in tubes to make 16 oz. stock solution.

16-D Film Developer. For film; dry. Available in units to make 1 gal., 3½ gal., 10 gal.

16-DR Replenisher. For use with 16-D Film Developer; dry. Available in units to make 1 gal., 5 gal.
MFR., E. I. DuPont de Nemours & Co.

EASTMAN

D-76. For film; dry; combination physical-chemical dev.; medium grain; dev. time 17 min.; full emulsion speed; soft-working; good shadow detail. Prices: 1 qt., $.30; ½ gal., $.40; 1 gal., $.65; 10 gal., $4. D-76R replenisher available.

DK-50. For film; dry; combination physical-chemical dev.; medium grain; rapid dev.; normal emulsion speed; soft-working; for portrait, commercial, color separation work. Prices: 1 gal., $.45; 3½ gal., $1.10. DK-50R replenisher available.

DK-60A. For film; dry; combination dev.; medium grain; rapid dev.; normal emulsion speed; normal contrast; recommended for fast sheet film. Prices: 1 gal., $.55; 3½ gal., $1.30.

Dektol. For paper; dry; combination dev.; cold tones; normal gradation; high print capacity. Sizes make stock solutions. Prices: 1 qt., $.28; ½ gal., $.38; 1 gal., $.65; 5 gal., $3.75; 25 gal., $11.

Microdol. For film; dry; combination dev.; replenisher available; fine grain; normal dev. time 16 min.; decreased emulsion speed 25%; soft-working; good shadow detail; recommended where considerable enlargements required. Prices: 1 qt., $.50; 1 gal., $1; 5 gal., $3.20.

Selectol. For paper; dry; combination dev.; warm tones; normal gradation; sizes make stock solutions. Prices: ½ gal., $.35; 1 gal., $.50; 5 gal., $1.75.

Versatol. For film and paper; in solution; combination chemical-physical dev.; cold tones; normal gradation with paper; medium grain, normal emulsion speed and contrast with film; diluted 1-3 for paper or film developer; 1-7 for tank dev. of film. Prices: 8 oz., $.35; 16 oz., $.50; 1 gal., $3.

Tri-Chem Pack. For film and paper; includes Kodak Universal M.Q. tube, Universal stop bath with indicator, and Universal fixer; makes 8 oz. for tray developing. Price, $.20.

Kodak Universal M.Q. For film and paper; makes 8 oz. for tray development of films and paper, and 22 oz. for tank development of film; chemicals come in two separate packs. Price, for unit, $.05; carton containing 12 packages (6 units), $.30.

Kodak Ektachrome Processing Kit. Contains all the required chemicals to process Kodak Ektachrome film. Includes 1st developer, hardener, color developer, bleach, and clearing and fixing bath. Prices, ½ gal., $3.90; 1 gal., $6; 3½ gal., $15.
MFR., Eastman Kodak Co.

EDWAL

Edwal 1-2-3. For film and paper; dry; chemical dev.; rapid dev., normal emulsion speed, contrasty, with good shadow detail with film; cold tones with clean whites for paper. Package to make 1 to 3 qts., $.15.

Edwal Super 12. For film; in solution ready to use; combination dev.; fine grain; med. speed; normal contrast; shadow detail; increased emulsion speed; Price, 1 qt. bottle, $1.35.

Edwal Super 20. For film; in single solution ready to use; combination dev.; very fine grain; gradual dev.; normal emulsion speed; soft-working; good shadow detail; Price, 1 qt. bottle, $1.35.

Edwal 102. For paper and film; in solution; chemical dev.; rapid dev.; normal emulsion speed; soft-working for film; slightly warm with long gradation and developing time with paper. Prices: 1 pt., $.85; 1 qt., $1.35.

Edwal One-Eleven. For film and paper; available in solution or dry, ready to mix; chemical dev.; rapid dev., normal emulsion speed, contrasty, good shadow detail with film; gives neutral black tones with fine gradation; 2 min. dev. time with bromide, 1½ min. with chloride papers. Prices: 1 pt. bottle, makes up to 8 pts., $.85; 1 qt. bottle, makes up to 8 qts., $1.35; ½ gal. tin, makes up to ½ gal., $.45.

Edwal Minicol. For film; in solution; chemical dev.; very fine grain; gradual dev.; normal emulsion speed; very soft-working; recommended for flash photography and summer sunlight. Price, 1 qt. bottle, $1.35.

Edwal Thermofine. For film; dry; chem. dev.; fine grain; rapid dev.; variable contrast; replenisher available. Prices: 1 qt. $.50; 1 gal., $1; qt. replenisher, $.50.
MFR., Edwal Laboratories.

FR

FR Super X-33. For film; combination chemical-physical dev.; fine grain; soft-working; fine shadow detail; in solution. Price, 1 qt., $.95.

FR Super X-33 Replenisher. For Super X-33 developer; used to maintain constant developing time by adding one oz. to developer for each roll developed. Price, 1 qt., $.95.

FR Negative Developer. For film; in solution; med. grain; normal emulsion speed; excellent shadow detail; good keeping qualities; for negatives to be used in making contact prints and 2X enlargements. Available in 32 oz. concentrated solution to make 2 gal. of working solution. Price, per bottle, $.95.

FR Paper Developer. For paper; chemical dev. concentrated for dilution to make 1 gal. of solution. Price, 1 qt. bottle, $.95.
MFR., The FR Corp.

GRAPHIC ECONOMY

LT-17. For film and paper; dry; ready to mix; fine grain, rapid dev., contrasty, with film; warm tones with paper; non-oxidizing and non-deteriorating. Prices: 1 qt. pkg., $.75; 1 gal., $1.10; 5 gal., $5.

LT-18. For film and paper; similar to LT-17 except is very soft-working. Prices and quantities same as above.

LT-30. For film; dry; fine grain; normal emulsion speed; soft-working; good shadow detail; wide latitude. Prices and quantities same as above.
MFR., Graphic Economy Developer Co.

HARVEY

Panthermic 777. For film; chemical dev.; very fine grain; rapid dev. time; temperature tolerance 60 to 90 F; normal emulsion speed; shadow detail; good keeping qualities; replenisher system offers continuous quality with no change in dev. time;
MFR., Harvey Photochemicals, Inc.

HOLLYWOOD

Gam-Matic. For film; dry; combination dev.; fine grain; rapid dev.; contrast control; maximum shadow detail; 2-solution developer; second solution is a heavily concentrated activator; will last as long as there is any liquid. Prices, 1 qt. pkg., $.75; ½ gal. pkg., $1.35.
MFR., Hollywood Photo Mfg. Co.

MALLINCKRODT

Contratone. For film; dry, ready to mix; chemical dev.; coarse grain; rapid dev.; normal emulsion speed; contrasty; good shadow detail; use without dilution. Prices, 1 gal. pkg., $.60; 5 gal. pkg., $2.50.

Pictone. For film and paper; dry; coarse grain; rapid dev.; normal emulsion speed; good shadow detail, for film; cold tones; excellent gradation for paper; dilute 1-2 for paper and 1-1 for film. Price, ½ gal. pkg., $.45; 1 gal. pkg., $.68; 5 gal. pkg., $2.78.

Softone. For film; dry; medium grain; gradual dev.; normal emulsion speed; soft-working; good shadow detail; use without dilution for pan and ortho films. Prices, ½ gal. pkg., $.40; 1 gal. pkg., $.60.

Ultratone. For film; dry; chemical dev.; fine grain; gradual dev.; normal emulsion speed; soft-working; fine shadow detail; use without dilution; recommended at 77°F with either pan or ortho film. Prices, ½ gal., $.60; 1 gal., $1.
MFR. Mallinckrodt Chem. Works.

SUPERIOR

Cine Chems. For 8 and 16 mm movie film; medium grain; rapid dev.; dry; ready to mix; multiple solution type developer; chemical dev.; for reversal films. Prices, ½ gal., $1.55; 1 gal., $2.55.
MFR., Superior Bulk Film Co.

URELL

U-44. For film; in solution; combination chemical-physical dev.; fine grain; normal emulsion speed; soft-working; high shadow detail; temp. tolerance to 85 F. Prices: 1 qt. bottle, $1; 1 gal. jug, $3.

U-86. For paper; in solution; cold tones; gives deep blacks with extreme latitude of exposure.
MFR., Urell, Inc.

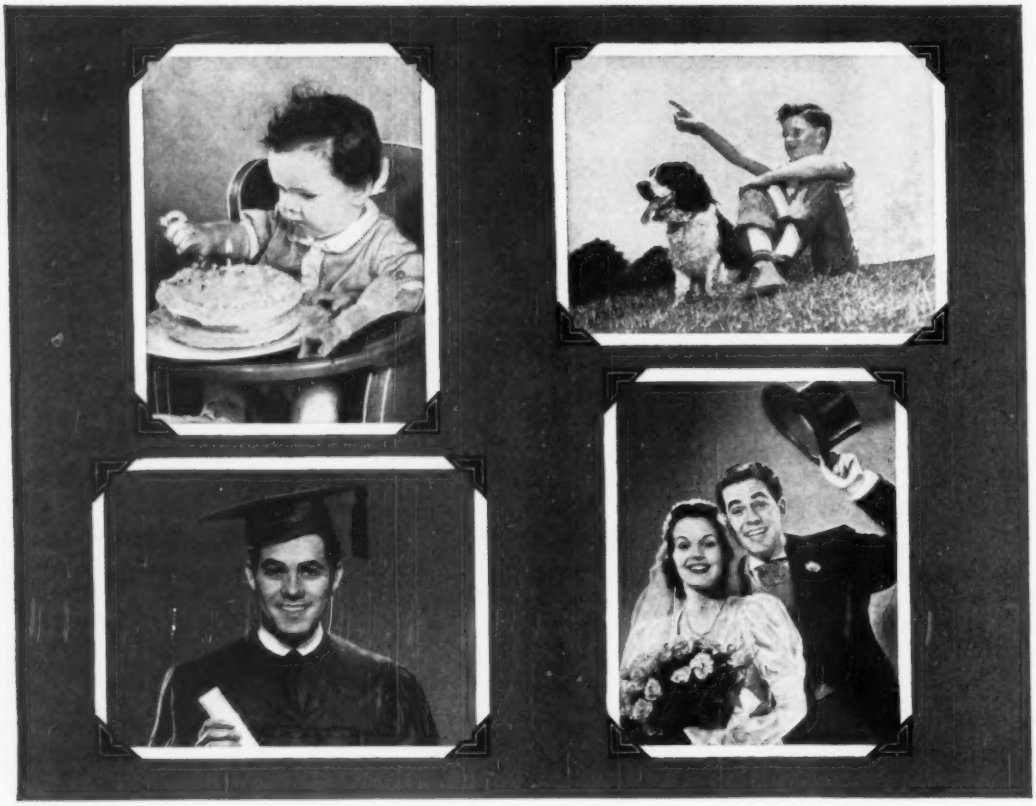
VON-L

Von-L Gold XX. For film exposed by all types of lighting; single solution; combination dev.; fine grain; gradual dev. emulsion speed increased from 5 to 10 times; variable contrast; fine shadow detail; in concentrated form. Prices: 2 oz. bottle to make 1 qt., $2.50; 4 oz. (.75 gamma) $4.50; 12 oz. (.75 gamma) $8.75; 12 oz. (1 gamma) $8.75.

Von-L Paper Developer. For paper; concentrate solution; variable contrast; full gradation; very low fog level; clean whites; recommended for bromide and chlorobromide papers only. Prices, 16 oz. bottle to make 3 gal., $2.25; 1 gal. to make 20-30 gal., $16.50.

Von-L S-35. For film; concentrate solution; combination chemical-physical dev.; fine grain; gradual dev.; emulsion speed increased from 5 to 10 times; variable contrast; fine shadow detail. Prices, 2 oz. bottle to make 1 qt., $2; 4 oz., $5.50; 12 oz., $9.75.

Von-L EF. For film; concentrate solution; high contrast; rapid dev. time; normal film speed; increased 10 times; exclusively for negatives exposed by electronic flash. Price, 12 oz. to make 1 gal., $12.50.
MFR., Mon-Blanc Chemical Co.



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SYLVANIA
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PHOTOLAMPS, FLUORESCENT LAMPS, FIXTURES, WIRING DEVICES, ELECTRIC LIGHT BULBS, RADIO TUBES, CATHODE RAY TUBES, ELECTRONIC DEVICES

FLASHBULBS

Bulb Designation	Voltage Required to Fire Bulb*	Light Output In Lumen Seconds†	Duration Above ½ Peak In Milliseconds (Approx.)	Time to Peak In Milliseconds (Approx.) And Class**	Mean Color Temp. Degrees Kelvin (Approx.)	Special Characteristics, Uses, Etc.	List Price Each (Less Tax)
General Electric Photoflash Lamps							
Speed Midget "SM"	3	5,000	7	5-F	3300	Quick flash for all-around near-distance pictures in proper reflectors. Bayonet base. Battery use only.	$0.14
Synchro-Press No. 5	3	16,000	13	20-M	3800	For all-around pictures in proper reflectors. Ideal for between-the-lens shutters. Bayonet base.	.12
Synchro-Press No. 5B	3	7,000	13	20-M	6000	Same as No. 5 with blue-filter coating for correct color rendition with daylight-type color film.	.16
Focal Plane No. 6	3	15,000	30	FP	3800	For synchronization with most focal-plane shutters. Midget size, bayonet base. Battery use only.	.15
Synchro-Press No. 11	3	28,000	12	20-M	3800	General purpose lamp for accurate synchronization and open flash, for press and amateur use.	.14
Synchro-Press No. 22B	3 to 125	27,000	14	20-M	6000	Same as No. 22 with blue coating for use with daylight-type color film and fill-in for daylight color shots.	.22
Synchro-Press No. 22	3 to 125	62,000	14	20-M	3800	General purpose of greater power than No. 11. Medium-broad peak allows for errors in synch.; for high-speed shots.	.16
Focal Plane No. 31	3	77,000	53	FP	3800	For high shutter speed synch.; with focal-plane shutters. Longer duration than No. 6. Battery flashing only.	.24
Photoflash No. 50	3 to 125	94,000	17	30-S	3800	Great light intensity to cover large areas and for exposure at small lens aperture.	.22
Photoflash No. 50B	3 to 125	43,000	17	30-S	6000	Same as No. 50, but with blue coating for use with daylight color emulsions.	.28
Sylvania Superflash							
SF (Speed Flash)	3 to 9	5,000	4	5-F	3300	Quick-freeze flash equivalent to 1/100 sec. shutter speed even with open flash. Gas filled; bayonet base. Battery use only.	.13
Press 25	3 to 9	20,000	20	22-M	3800	Midget lamp for synchronization with between-the-lens shutters; bayonet base. Battery use only.	.13
No. FP-26	3 to 9	15,000	.....	FP	3800	For focal-plane shutters only; for use with cameras up to 3¼x 4¼. Bayonet base. Use in midget-lamp reflector. Battery use only.	.17
No. 0	3 to 9	20,000	16	23-M	3800	Baby size flash, medium base, for general amateur use; wide-peak flash for synchronized use. Battery use only.	.13
Press 40	3 to 9	30,000	18	22-M	3800	For press use; long peak for high-speed synchronization; can be used with many focal-plane minicameras. Battery use only.	.16
No. 2	3 to 9	62,000	17	25-M	3800	High-powered lamp recommended for synch. with all compur or between-the-lens shutters, some focal-plane. Battery use only.	.22
No. 2A	3 to 9	77,000	50	23-M	3800	For focal-plane shutters only; for synch. up to 1/1000 sec. Battery use only. Two lamps in twin package.	.25
No. 3	3 to 125	110,000	21	28-S	3800	Powerful lamp for covering large areas; synch. recommended at speeds up to 1/100 second.	.40
No. 25B	3 to 9	8,000	20	22-M	6000	Blue midget for use with daylight-type color films. Bayonet base, for use with battery only.	.20
No. 40B	3 to 9	14,000	.....	M	6000	Same as No. 40. Designed for use with daylight-type color films. Battery use only.	.20
No. 2B	3 to 9	28,000	17	25-M	6000	Same bulb size as No. 2; for use with daylight-type color films. Packed two to twin wrapper. Blue lamp. Battery use only.	.25
No. 3B	3 to 125	50,000	21	28-S	6000	Blue lamp same size as No. 3; for use with daylight-type color films.	.45
Westinghouse Photoflash Lamps							
Speed Midget SM	3	5,500	7	5-F	3300	Extremely fast peak, gas filled; bayonet base, for front shutter cameras.	.14
Synchro-Press No. 5	3	16,000	13	20-M	3800	The "peanut" bulb, bayonet base; for synchronized shots with front shutter cameras.	.12
Synchro-Press No. 5B	3	7,000	13	20-M	6000	Similar to No. 5 with blue filter coating. Gives correct color balance for daylight color film.	.16
Synchro-Press No. 11	3	28,000	12	20-M	3800	General purpose lamp for use with front shutter cameras.	.14
Synchro-Press No. 22	3 to 125	62,000	14	20-M	3800	Same as No. 11 but of greater power. May be flashed on house current.	.16
Synchro-Press No. 22B	3 to 125	27,000	14	20-M	6000	No. 22 with blue filter coating gives correct color balance for daylight color film.	.22
Focal Plane No. 6	3	15,000	30	FP	3800	Small bulb, bayonet base; for use with focal plane shutters in smaller cameras.	.15
Focal Plane No. 31	3	77,000	53	FP	3800	Screw base; powerful bulb for all focal plane shutter cameras.	.24
Photoflash No. 50	3 to 125	94,000	17	30-S	3800	Powerful lamp; for banquet and large area shots.	.22
Photoflash No. 50B	3 to 125	43,000	17	30-S	6000	Same as No. 50 with blue filter coating, gives correct color balance for daylight film.	.28

* In the interest of safety, bulbs designed for firing with 3 to 9 volts should not be ignited with regular house current.

† Lumen second values for all G-E bulbs are determined in accordance with a new method established by ASA and differ from previously published ratings. There is no change in lamps or light output.

** Approximate time to peak in milliseconds for designated classes of lamps are: Class F—5 milliseconds; Class M—20 milliseconds; Class S—30 or more milliseconds; Class FP—for focal-plane shutters; long, level peak.

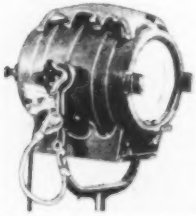
SPOTLIGHTS

BARDWELL & McALISTER

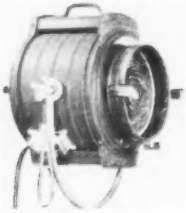
Dinky-Inkie. Focusing by scale; uses 100- or 150-watt T-8 lamp; gravity ventilation; Fresnel lens; tripod socket; table base; 12-foot cable; for lighting small areas, or home movies; for color and black-and-white photography. Accessories include barn doors, snoots, stand adapters, etc. Prices on request.

Dinky Boom. Focusing by calibration; uses 100-, or 150-watt T-8 lamp; Fresnel lens; roller stand with boom arm; filter holders; boom in balance at 45° angle; places light 9½ feet from floor; special brake shoe in boom arm for adjustment; 12-foot cable; table base. Accessories include barn doors, diffusers, and snoots. Prices on request.

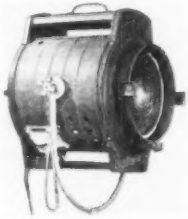
Boom Light. Uses Baby Keg-Lite as light source; roller stand with boom arm; filter holders; boom in balance at 12½ feet from floor; permits any light positioning; 25-foot cable. Accessories include barn doors, snoots, diffusers, Macbeth filters, and the Foco-Spot unit. Price on request.



Baby Keg-Lite. Focusing by calibrated scale from 4 to 44°; uses 500- to 750-watt T-20 or T-24 with med. bi-post base; roller stand; filter holders; yoke; 25-foot rubber cable; Fresnel lens. Available accessories include, barn doors, snoots, diffusers, low arm bracket, differ box, leg turtle weights, Macbeth filters, table base, Foco-Spot to produce round or rectangle-shaped sharp beam. Prices on request.



Junior Spot. Focusing; uses 2000-watt bi-post lamp; gravity ventilation; no light leaks; roller stand; filter holders; Fresnel lens; U-type yoke; 25-foot heavy-duty cable. Accessories include, barn doors, snoots, diffusers, and Macbeth filters. Prices on request.



Senior Spot. Focusing by calibration; uses 5000-watt bi-post lamp; has same features and characteristics as Junior Spot; like above models, it is for black-and-white, and color photography. Accessories same as above. Price on request.

MFR. Bardwell & McAlister, Inc.

BEATTIE HI-LITE

Baby Hi-Lite. Screw focusing; Fresnel lens; uses 100-, to 250-watt bayonet-base lamp; natural draft ventilation; available with or without stand; filter holders; includes diffusers, blue filter, 20-foot cable. Price, $30.

Baby Boom Lite. Focusing; uses 100- or 250-watt bayonet-base lamp; Fresnel lens; stand and boom arm; collapsible base legs; filter holders; spun-glass diffuser, fluorescent filter, and 20-foot cable. Price, $80.

Senior Boom Lite. Screw focusing; Fresnel lens; uses 500-, 750-, or 1000-watt T-20 pre-focus lamp; stand with boom arm; upper riser is counter-balanced; collapsible legs; filter holders; includes lamp, spun-glass diffuser, fluorescent filter, and 20-foot cable. Price, $137.50. Accessories include barn doors and snoot sets.

Super Boom Lite. Similar to the Senior Boom Lite model except uses 500-watt T-20 medium screw lamp; does not have counter-weight feature; Price, including lamp, $105. Accessories same as above.

2 K. W. Cine-Lite. Knob-and-lever focusing; Fresnel lens; uses 2000-watt G-48 bi-post lamp; ventilation through cylindrical baffle; filter holders; includes spun-glass diffuser, 25-foot rubber cable, stage plug. Price, $214. Regular stand and small floor stand available as accessories.

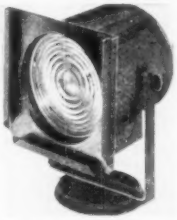
Super Hi-Lite. Focusing; Fresnel lens; uses 500-watt T-20 lamp; with or without stand; filter holders; takes 6-inch barn doors and snoots; includes diffuser, blue filter, and 20-foot cable. Price, $60. Accessories include barn doors, snoot sets, etc.

Senior Hi-Lite. Similar to the Super Hi-Lite model, except it uses 500-, 750-, or 1000-watt T-20 pre-focus lamp; includes diffuser, filter, and 20-foot cable. Price, $81.25. Accessories same as above.

MFR. Otto K. Olesen Co.

BOHLING

Model 1169. Focusing; uses 100-watt G-16½ lamp; 3-inch Fresnel lens; mask slot; filter holders; mounted on 3-inch aluminum base; 6-foot cable; fitting can be furnished to mount on tripod stand; U-type yoke. Price on request.



Model 065. Focusing; uses 250- or 500-watt T-20 lamp, or 250- or 400-watt G-30 lamp with pre-focus base; 6-inch Fresnel lens; mask slot; filter holders; U-type yoke; table base; gives soft-edge beam at all focusing position. Price on request.

MFR. F. A. Bohling.

BRITELITE

Sunspot. Focusing by push-pull method; 4½-inch Fresnel lens; uses No. 1 flood bulb; table base; aero-alloy body; convection cooling; U-type yoke. Price, $13.50 plus tax. Tripod available as accessory, $4.75.

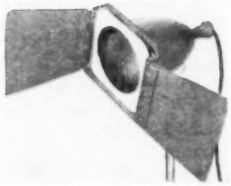
Model 535 Spotlite. Focusing by push-pull method; 6-inch Fresnel lens; uses 60-watt T-20 lamp; radiant convector cooling; pre-focus socket; tilting clutch; yoke; filter holder; Duraskel body. Price, $62.50 plus tax; tripod available for $7.50, and Britelite Focusing Pin Spot Adapter for $12.95 plus tax.

Model 750 Sunspot. Focusing control; 6-inch Fresnel lens; uses 750-watt T-24 med. bi-post lamp; one-piece aero-alloy housing; tilting clutch; rack-and-pinion focusing. Price, $95 plus tax. Studio stand, $24.50; Focusing Pin Spot Adapter also available.

Model 2000 Spotlite. Focusing by rack-and-pinion method; 8-inch Fresnel lens; uses 2000-watt T-30 lamp; forced draft ventilation; aero-alloy body; aluminum-mounted switch. Price, $145 plus tax; studio stand, $30.

MFR. Bardon Mfg. Co.

COLORTRAN



Model 750 Spot. Non-focusing; Fresnel lens; 150-watt PAR 38 spot-

light lamp recommended; any reflector-type floodlamp or spotlight lamp can be used; tripod socket; filter holders; adjustable revolving barn doors; provision for silk screens. Price, $15 plus tax. Available accessories are snoots.
MFR., Colortran Converter Co.

DISPLAY FRESNEL PHOTOSPOT

Focusing; 6-inch Fresnel lens; uses 300-, 500-, or 750-watt T-20 lamp; multi-baffled vent holes for ventilation; collapsible roller stand; has automatic safety lock and pneumatic check; finger-type holders for accessories. Price with stand, $25; Photospot, $19.50. Accessories include barn doors, spot shades, framing masks, diffusers, color filters, Macbeth filters, and flash adapter.

Giraffe Fresnel & Fresnel Cub. Focusing; 6-inch Fresnel lens; uses 300-, 500-, or 750-watt T-20 lamp; collapsible roller stand with boom arm; automatic safety lock; pneumatic check; single control for source position and direction; finger-type accessory holder. Price, large size, $119.50; Cub model, $106.50. Accessories same as above model.

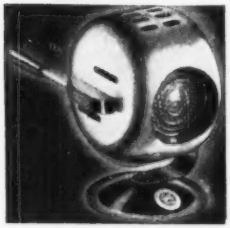
Giraffe Standard and Cub. Non-focusing; open-front-type unit; uses RSP2A, RFL2A, R40, flashbulbs, or No. 1 or 2 floodlamps; Numo-cushion stand with same features as the Giraffe Fresnel model; filter and diffuser holders; diffuser; shatter screen, and louvre. Price, Standard, $89.50; Cub, $60. Accessories include color filters, Macbeth filters, flash adapter, reflector.
MFR. Display Lighting, Inc.

FR HI-SPOT

Focusing; uses 200-watt lamp at 110 recommended line voltage; Fresnel lens; cooling by fins and slots; tripod socket; table base; yoke; swivels for directional focusing; color temperature, 3200 K. Price, including lamp, $16.65 including tax. Adapters

available to fit ½-inch and ⅜-inch light standards.
MFR. The FR Corporation.

GOLDE



GoldE Hi-Liter. Finger-tip beam-control device; Fresnel lens; uses 100-watt T-8 or 150-watt G-16½ lamp; tripod socket; table base; designed for booms, ceiling, or stand; removable panning handle. Price, less lamp, $10. Spiral louvre and light stand available as accessory.

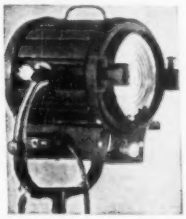
Rotochrome Spotlight. Push-pull focusing; condenser lens; uses 250-, 400-, or 500-watt pre-focus lamp; natural draft ventilation; changes 6 colors per minute; self-starting; table base; adjustable beam size; wire heat guard. Price, less lamp, $27.50. Ceiling or wall mounting bracket available as accessory.

GoldE Bantam Spot. Push-pull focusing; Fresnel lens; uses 500-watt T-20 pre-focus lamp; fluted cooling; special wire heat guard; table base. Price, less lamp, $17. Accessories include snoots, telescoping stand, blinder, diffuser, color frames, and ceiling brackets.

Bantam Super Spot. Focusing; Fresnel lens; blower cooled; uses 250, 500, 750, or 1000-watt T-20 pre-focus lamp; wire heat guards; 10-foot cord; has full tilting. Price, less lamp, with table base, $29. Accessories same as above.
MFR. GoldE Mfg. Co.

MOLE-RICHARDSON

Junior Solarspot Model 410. Focusing; Fresnel lens; uses 1000 or 2000-watt mogul bipost lamp; ventilation through interlocking channels; roller stand; collapsible and telescoping; yoke; long rubber cord; for heavy duty. Price on request. Available accessories include diffuser frame, barn doors, stand bracket.

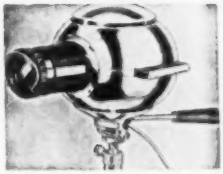


Baby Solarspot. Focusing; Fresnel lens; uses 500 or 750-watt lamp; ventilation through interlocking channel construction; roller stand; collapsible and telescoping; yoke; long rubber cord; rugged for heavy duty. Price on request. Accessories same as above.

Midget. Focusing; Fresnel lens; uses 200-watt lamp; ventilation by louvers; table base; tripod socket; yoke; filter holders; Price on request. Barn doors available as accessory.

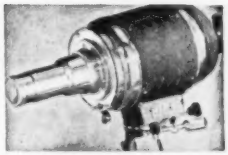
Blue Zephyr Baby Model 750. Scale focusing; Fresnel lens; uses 750-watt medium bipost lamp; ventilation through interlocking channel construction; yoke; rotating barn door; diffuser frame; long rubber cord; for heavy duty. Available either with Auxiliary Pedestal, Model 750S or Blue Comet Boom, Model 75. Model 750S is collapsible and telescoping; rubber casters. Blue Comet Boom, Model 75, is collapsible and telescoping; locking rubber-tired casters; air brake in boom; boom arm adjustable from flat to upright; brake drum control at balancing point. Prices for all combinations on request. Accessories available for Model 750 are stand brackets.
MFR., Mole-Richardson Co.

SPHERO-LUX PHOTOGRAPHIC LIGHT



Focusing; Fresnel lens; uses 100-watt A-21 lamp; with stand; equipped with accessories for the projection of patterned backgrounds; designed to provide designs of light. Price, including color filters, design discs, etc., $39.75.
MFR. Burton Mfg. Co.

SUN RAY MODEL 17



Focusing; condenser lens; uses 500-watt T-20 lamp; has ventilation provisions; adjustable socket; diaphragm; special detachable focusing attachment; without stand. Price, $43.11 including tax.
MFR. Sun Ray Photo Co., Inc.

VICTOR MINI-BOOM LIGHT

Non-focusing; open face ventilation; recommended lamp is 500-watt RSP-2; stand; tubular arm; weighted ball handle; swivel at stand and socket; total elevation 10 feet; 15-foot cord; wide adjustment range for lamp. Price, $8.95. Available accessories include reflectors for shielding lamps.
MFR., Jas. H. Smith & Sons Corp.

LAMPS FOR PICTURE TAKING

Manufacturer and Lamp Designation	Wattage or Light Output	Mean Color Temp. (Deg. Kelvin)	Average Life at 115 V. in Hrs.	Rated Lumens at 115 V.	Base** and Burning Position*	Special Characteristics	List Price Each (Less Tax)
General Electric							
G-E Photofloods							
No. 1	250	3,400	3	8,650	Medium A	Equiv. to 750 watts standard lighting.	$0.16
No. 2	500	3,400	6	17,000	Medium A	Equiv. to 1500 watts standard lighting.	.30
No. 4	1,000	3,400	10	33,500	Mogul A	2½ times as effective as reg. 1000-watt lamp.	1.20
No. B1	250	4,800 (d)	3	.....	Medium A	Daylight film, for color photography.	.30
No. B2	500	4,800 (d)	6	.....	Medium A	Same.	.60
No. B4	1,000	4,800 (d)	10	.....	Mogul A	Same.	1.75
No. PFL 2	500	3,400	6	(c)	Medium A	Flood, built-in reflector, 60° controlled beam.	1.05
No. RSP 2	500	3,400	6	50,000 (a)	Medium A	Spot, built-in reflector, 20° beam.	1.20
Medium Beam 375w	375	3,400	4	.....	Medium A	Medium beam—built-in reflector, 40° beam.	1.25
3200 K Lamps							
A-21	250	3,200	20	.....	Medium A		.40
PS-25	500	3,200	60	.....	Medium A		.70
T-20	500	3,200	30	.....	Medium C		2.95
T-20	500	3,200	30	.....	Med. Pf. C		3.20
T-20	500	3,200	35	.....	Med. Bi. C		4.25
T-24	750	3,200	30	.....	Med. Bi. C		5.00
T-20	1,000	3,200	35	.....	Mogul C		5.75
T-20	1,000	3,200	35	.....	Mog. Pf. C	For color photography with film color-balanced for 3200 K.	6.15
G-40	1,000	3,200	35 (b)	.....	Mogul D		6.75
G-40	1,000	3,200	35 (b)	.....	Mog. Pf. D		7.15
G-40	1,000	3,200	35 (b)	.....	Med. Bi. A		7.00
PS-52	1,000	3,200	75	.....	Mogul A		4.00
PS-52	1,500	3,200	100	.....	Mogul A		5.50
G-48	2,000	3,200	60 (b)	.....	Mog. Bi. C		11.00
G-48	2,000	3,200	60 (b)	.....	Mogul C		12.00
G-48	2,000	3,200	60 (b)	.....	Mog. Pf. C		12.40
"CP" Lamps (3350°K)							
T-20	500	3,350	8	.....	Med. Bi. C		4.25
T-24	750	3,350	12	.....	Med. Bi. C	For color films balanced to daylight. When used with the Macbeth "Whiterlite" filter, the resulting combination provides excellent photographic daylight.	5.00
PS-52	2,000	3,350	15	.....	Mogul A		5.25
G-48	2,000	3,350	25	.....	Mog. Bi. C		10.00
T-64	5,000	3,350	75	.....	Mog. Bi. C		23.00
G-96	10,000	3,350	75	.....	Mog. Bi. C		65.00
Spotlight Lamps							
T-10	200	.....	.....	.....	Bay. Cd.	Clear.	2.90
G-30	400	.....	.....	.....	Medium	Clear, also available in photo blue.	1.90
G-30	400	.....	.....	.....	Med. Pf.	Clear, also available in photo blue.	2.15
Miscel. Lamps							
T-20	500	.....	.....	.....	Medium	Small lamp with powerful light. Recommended for home portraiture, etc.	2.50
T-20	500	.....	.....	.....	Med. Pf.		2.50
PS-40	500	.....	.....	.....	Mogul	Clear, for general lighting.	.95
PS-52	1,000	.....	.....	.....	Mogul	Same.	3.10
PS-52	1,500	.....	.....	.....	Mogul	Same.	4.75
Movieflood	2,000	.....	15	.....	Mogul	Equal to five standard 1000-watt lamps.	5.25
Fluorescent Lamps (Daylight & White)				Diameter			
9"T-5	6	.....	1,000	⅝"	.....		.75
18"T-8	15	.....	2,500	1"	.....		.62
18"T-12	15	.....	2,500	1½"	.....		.75
24"T-12	20	.....	2,500	1½"	.....	Lamps require a special small ballast and starter, available for 50 and 60-cycle a-c current, 115 and 230-volt circuits. Wattage shown is exclusive of auxiliary watts.	.75
36"T-8	30	.....	2,500	1"	.....		.75
48"T-12	40	.....	2,500	1½"	.....		.75
60"T-17	100	.....	3,000	2⅛"	.....		1.00
							2.30
Jewel Products							
			Rated at 120 V.	Rated at 120 V.			
Picture Flood							
A21	500	.....	5	10,500	Medium A	Constant actinic value.	.35
PS25	1,000	.....	10	21,000	Medium A	Same.	.65
Opal Flood							
A21	300	.....	5	5,500	Medium A	Bright, soft light.	.75
PS25	500	.....	10	10,800	Medium A	Same.	1.50
Filter Flood							
A21	400	.....	5	7,500	Medium A	Daylight blue, for color photography.	.50
PS25	750	.....	10	15,000	Medium A	Same.	.90
Radiant Lamp Corp.							
Spotlight Lamps				Rated Lumens			
P25	100	.....	200	1,360	Medium A	Light center length, 3", over-all length, 3⅛".	.80
P25	100	.....	200	1,360	Med. Pf. A	Light center length, 2¹⁄₁₆", over-all length, 5".	1.00
G16½	100	.....	200	1,600	Bay. Cd. C	Light center length, 1⅜", over-all length, 3".	.90
G30	250	.....	200	4,400	Medium D	Light center length, 3", over-all length, 5⅛".	1.15
G30	250	.....	200	4,400	Med. Pf. D	Light center length, 2¹⁄₁₆", over-all length, 5⅛".	1.40
T12	250	.....	200	4,400	Med. P.S. B	Light center length, 3½", over-all length, 5⅜".	4.50
T20	250	.....	200	4,400	Med. Pf. C	Light center length, 2¹⁄₁₆", over-all length, 5¾".	3.50
T20	250	.....	200	4,400	Medium C	Light center length, 3", over-all length, 5½".	3.35
G30	300	.....	200	5,300	Medium D	Light center length, 3", over-all length, 5⅜".	1.50
G30	400	.....	200	8,000	Medium D	Light center length, 3", over-all length, 5⅛".	1.75
G30	400	.....	200	8,000	Med. Pf. D	Light center length, 2¹⁄₁₆", over-all length, 5⅛".	2.00
G40	500	.....	200	10,200	Mogul D	Light center length, 4¼", over-all length, 7¹⁄₁₆".	2.60
T12	500	.....	200	10,250	Med. P.S. B	Light center length, 3½", over-all length, 5⅜".	6.00
T20	500	.....	200	10,250	Med. Pf. C	Light center length, 2¹⁄₁₆", over-all length, 5¾".	3.40
T20	500	.....	500	9,500	Med. Pf. C	Light center length, 2¹⁄₁₆", over-all length, 5¾".	3.00
G40	1,000	.....	200	22,500	Mogul D	Light center length, 4¼", over-all length, 7¹⁄₁₆".	5.00
G40	1,000	.....	200	22,500	Mogul D	Light center length, 5¼", over-all length, 8".	5.00
G40	1,000	.....	200	22,500	Mog. Pf. D	Light center length, 3¹⁵⁄₁₆", over-all length, 8⁷⁄₁₆".	5.40
G48	1,000	.....	200	23,500	Mog. Bi. C	Light center length, 5", over-all length, 9⅜".	10.00
T24	1,000	.....	200	22,500	Mog. Bi. B	Light center length, 6½", over-all length, 10".	11.50
G40	1,500	.....	200	34,200	Mogul D	Light center length, 5¼", over-all length, 8".	7.50
G40	1,500	.....	200	34,200	Mog. Pf. D	Light center length, 3¹⁵⁄₁₆", over-all length, 8⁷⁄₁₆".	7.90
T24	1,500	.....	200	33,500	Mog. Bi. B	Light center length, 6½", over-all length, 10".	13.75

LAMPS FOR PICTURE TAKING—Continued

Manufacturer and Lamp Designation	Wattage or Light Output	Mean Color Temp. (Deg. Kelvin)	Average Life at 115 V. in Hrs.	Rated Lumens at 115 V.	Base** and Burning Position*	Special Characteristics	List Price Each (Less Tax)
Radiant Lamp Corp.							
Spotlight Lamps (Cont'd)							
G48	2,000	.....	200	50,000	Mogul C	Light center length, 5 1/4", over-all length, 8 5/8".	$12.00
G48	2,000	.....	200	47,000	Mog. Pf. D	Light center length, 5 1/4", over-all length, 8 5/8".	12.50
G48	2,000	.....	200	50,000	Mog. Pf. C	Light center length, 31 5/16", over-all length, 9".	12.40
G48	2,000	.....	200	47,000	Mog. Pf. D	Light center length, 31 5/16", over-all length, 9".	12.90
G48	2,000	.....	200	52,000	Mog. Bi. C	Light center length, 5", over-all length, 9 3/8".	11.00
G48	2,000	.....	200	48,000	Mogul C	Light center length, 5 1/4", over-all length, 8 5/8".	16.50
G48	2,000	.....	200	48,000	Mog. Pf. C	Light center length, 31 5/16", over-all length, 9".	16.93
T30	2,000	.....	200	48,000	Mog. Bi. B	Light center length, 6 1/2", over-all length, 9 7/8".	15.25
Floodlamp							
G30	250	.....	200	3,750	Medium D	Light center length, 3", over-all length, 5 1/8".	1.15
G30	250	.....	200	3,750	Med. Pf. D	Light center length, 2 15/16"; over-all length, 5 3/8".	1.40
G30	400	.....	200	6,600	Medium D	Light center length, 3"; over-all length, 5 1/8".	2.00
G30	400	.....	200	6,600	Med. Pf. D	Light center length, 2 15/16"; over-all length, 5 3/8".	2.25
G40	500	.....	200	8,650	Med. S. D	Light center length, 4 1/8"; over-all length, 7 3/4".	2.20
G40	500	.....	200	8,800	Mogul D	Light center length, 4 1/4"; over-all length, 7 11/16".	2.10
T20	500	.....	200	8,500	Med. Pf. C	Light center length, 2 15/16"; over-all length, 5 3/4".	3.40
T12	500	.....	200	8,700	Med. P.S. B	Light center length, 3 1/2"; over-all length, 5 3/4".	6.00
G40	1,000	.....	200	19,000	Mogul D	Light center length, 5 1/4"; over-all length, 8".	5.00
G40	1,500	.....	200	30,000	Mogul D	Light center length, 5 1/4"; over-all length, 8".	8.25
G48	1,500	.....	200	30,000	Mogul D	Light center length, 5 1/4"; over-all length, 8 5/8".	9.25
Sylvania Electric							
Sylvania Superflood							
No. 1	250	3,400	3	8,650	Medium A	Equiv. to 750 watts standard lighting.	.16
No. 2	500	3,400	6	17,000	Medium A	Equiv. to 1500 watts standard lighting.	.30
No. 4	1,000	3,400	10	33,500	Mogul A	Equiv. to 2500 watts standard lighting.	1.20
No. R2	500	3,400	6	.....	Medium A	Reflectorflood, 30° beam, built-in reflector.	1.05
No. B1	250	4,800 (d)	3	5,600	Medium A	Made of daylight blue filter glass; for use with day-light-type color film and softer shadows in black-and-white.	.30
No. B2	500	4,800 (d)	6	11,000	Medium A		.60
No. B4	1,000	4,800 (d)	10	21,800	Mogul A		1.75
Westinghouse							
W Photoflood Lamps							
No. 1	250	3,400	3	8,650	Medium A	High intensity light source, use with a reflector.	.16
No. 2	500	3,400	6	17,000	Medium A	Same, with double the intensity of No. 1.	.30
No. 4	1,000	3,400	10	33,500	Mogul A	Same, four times brighter than No. 1.	1.20
No. B1	250	4,800	3	5,600	Medium A	Blue bulb fill-in light to supplement daylight.	.30
No. B2	500	4,800	6	11,000	Medium A	Same, double the intensity of the B1.	.60
No. B4	1,000	4,800	10	21,000	Mogul A	Same, four times the intensity of the B1.	1.75
No. 375 34 R/4	375	3,400	4	.....	Medium A	Compact flood, built-in reflector 40° medium beam.	1.25
No. RFL2	500	3,400	6	4,500	Medium A	Compact flood, built-in reflector 60° controlled beam.	1.05
No. RSP2	500	3,400	6	(a)	Medium A	Compact spot, built-in reflector 20° controlled beam.	1.20
3200K Lamps							
PS25	500	3,200	60	.....	Medium A		.70
T20	500	3,200	30	.....	Medium C		2.95
T20	500	3,200	30	.....	Med. Pf. C		3.20
T20	500	3,200	35	.....	Med. Bi. C		4.25
T24	750	3,200	30	.....	Med. Bi. C		5.00
T20	1,000	3,200	35	.....	Mogul C		5.75
T20	1,000	3,200	35	.....	Mog. Pf. C		6.15
G40	1,000	3,200	35	.....	Mogul D	For color photography with color film balanced for 3200K.	6.75
G40	1,000	3,200	35	.....	Mog. Pf. D		7.15
G40	1,000	3,200	35	.....	Med. Bi. A		7.00
PS52	1,000	3,200	75	.....	Mogul A		4.00
PS52	1,500	3,200	100	.....	Mogul A		5.50
G48	2,000	3,200	60	.....	Mog. Bi. C		11.00
G48	2,000	3,200	60	.....	Mog. Bi. C		12.00
G48	2,000	3,200	60	.....	Mog. Pf. C		12.40
"CP" Lamps (3350K)							
T20	500	3,350	8	.....	Med. Bi. C		4.25
T24	750	3,350	12	.....	Med. Bi. C	For color film balanced to daylight when used with the Macbeth "Whiterlite" filter. The resulting combination provides photographic daylight.	5.00
PS52	2,000	3,350	15	.....	Mogul A		5.25
G48	2,000	3,350	25	.....	Mog. Bi. C		10.00
T64	5,000	3,350	75	.....	Mog. Bi. C		23.00
G96	10,000	3,350	75	.....	Mog. Bi. C		65.00
Fluorescent Lamps (Daylight & White)							
9" T5	6	.....	2,500	3/8"	.....		.75
18" T8	15	.....	7,500	1"	.....	Produce cool well-diffused light. Lamps require a special small ballast and starter. Available for 50 and 60 cycle a-c current 115 and 230 volt circuits. Wattage shown is exclusive of auxiliary watts.	.62
18" T12	15	.....	7,500	1 1/2"	.....		.75
24" T12	20	.....	7,500	1 1/2"	.....		.75
36" T8	30	.....	7,500	1"	.....		.75
48" T12	40	.....	7,500	1 1/2"	.....		1.00
60" T17	100	.....	7,500	2 1/8"	.....		2.30
12" T8	18	.....	7,500	.....	.....	Half-circle, Circlare.	1.25
12" T10	32	.....	7,500	.....	.....	Full circle, Circline.	1.85

NOTES **Bases are screw type unless otherwise indicated. Abbreviations are as follows: Bi.—Bipost, Bay.—Bayonet, Cd.—Candelabra; Pf.—Prefocus, P.S.—Prefocus Skirted.

*Burning Positions:
A. Will burn in any position.
B. Base up burning.
C. Base down burning.
D. Any position from vertical base down to horizontal.
E. Any position except within 45° of vertical base up.

a. Approximate Beam Candlepower.
b. Not designed for life, but for a mean color temperature of 3200 Kelvin.
c. Light concentrated in photo-effective zone. Equivalent to a No. 2 Photoflood in good reflector.
d. Intended to supplement daylight.

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Burke & James, Inc.
Calhoun Co.
Carter's Paper Cement
The Chilcote Co.
Commercial Paste Co.
Craftint Manufacturing Co.
Eastman Kodak Co.
Gross Photo Supply Co.
Higgins Ink Co.
Industrial Tape Corp.
Inventions, Inc.
National Chemical Co.
Rosco Laboratories
S. S. Rubber Cement Co.
Sanford Ink Co.
Union Rubber & Asbestos Co.

AGITATORS, TANK
Oscar Fisher Co., Inc.
Goetz & Ruschman
National Chemical Co.
Radiant Specialty Corp.
Testrite Instrument Co., Inc.
Wolff Manufacturing Co.

ALBUMS
Aabalton's Photofit Co.
Amberg File & Index Co.
American Binder Co., Inc.
American Camera & Photo Supply
American Mount & Card Co.
Ash Products Co.
O. S. Braunstein
Burkhardt Co.
John Byrnes Co.
The Camille Co.
Chavez Art Craft Products
Chilcote Co.
Clark Alan Albums
Cook's of Camden
Craftmount Co.
Develco Products
Eagle Photo Supply Co.
Eastman Kodak Co.
Empress Novelty Co.
Gen. Products Co. (Reading, Mass.)
General Products Co. (Chicago)
Gross Photo Supply Co.
Arthur Hertzberg & Craftsmen
Hob-B-Bookcraft
Holson Binders, Inc.
W. C. Horn, Bro. & Co.
Imperial Album Co.
International Sales Co.
Interstate Picture Frame Co.
Janton Products
Emil Koudelka, Inc.
Kreuter Leather Goods Co.
McMillan Foley Publishing Co.
E. E. Miles Co.
Mevi, Inc.
Nu-Style Photo Album Co.
B. Oshrin & Brother
Ply-Line Co.
Pocket Photos, Inc.
Polly Products, Inc.
Joseph Robin Co.
Samuel L. Unger
Woodcraft
York Photo Mount, Inc.

APRONS, DARKROOM
American Camera & Photo Supply
Associated Photo Products
Blossom Manufacturing Co.
Canvas Products Corp.
Eagle Photo Supply Co.
Eastman Kodak Co.
Eimer & Amend
General Photographic Supply Co.
Melrose Manufacturing Co.
George Murphy, Inc.
Petra Manufacturing Co.
Pierce Co.
The Saunders Co.
Surety Rubber Co.
Tikern Corp.

AUTOMATIC DIAPHRAGM CONTROL
Graflex, Inc.
M. C. E. Co., Inc.

BACKS, CAMERA
Dividing
Ansco
L. F. Deardorff & Sons
Gundlach Mfg. Corp.
Multiple
Eastman Kodak Co.
Gundlach Manufacturing Corp.
Petrov Photographic Tech. Service
Reducing
Ansco
Burke & James, Inc.
L. F. Deardorff & Sons
Eastman Kodak Co.
Gundlach Manufacturing Corp.
Petrov Photographic Tech. Service
Photronics, Ltd.
Spring, Roll Film Comb.
E. Suydam & Co.
Spring
Eastman Kodak Co.
Fidelity Mfg. Co.
Mico Photo Products Co.

BEADS (Glass, for Screens)
Amer. Camera & Photo Supply Co.

BELLOWS
Adam Archinal Corp.
Bellows Supply Co.
Dawco Company
Gundlach Mfg. Corp.
Major Bellows Mfg. Co.
Petrov Photographic Tech. Service
Rogers Bellows Mfg. Co.
Techni-Service
United Camera Co.

CALCULATORS & COMPUTERS
Arel, Inc.
Diebold, Inc.
Eagle Photo Supply Co.
Eastman Kodak Co.
Haber & Fink
Loren H. Hardaker
Hollywood Photo Mfg. Co.
George Murphy, Inc.
Precision Camera Equip.
Slyd-Rul Co.
Webster Instrument Co.

CAMERA REPAIR
See REPAIRS, CAMERAS, ETC.

CASES, CAMERA
American Cam. & Photo Supply
Apex Case Co., Inc.
Arel Incorporated
Baco Accessories Co.
Barnett & Jaffe
Bell & Howell Co.
Burke & James, Inc.
Calhoun Co.
Diamond Case Div., Louis
Durable Fibre Sample Case Co.
Eastman Kodak Co.
Elkay Photo Products, Inc.
Empire M. P. Screen Co.
Fiberbilt Case Co.
J. L. Galef & Son, Inc.
General Photographic Supply Co.
Graflex, Inc.
Gundlach Mfg. Corp.
Hinson Manufacturing Co.
The Kalart Co.
James V. Keys
Leatherarts Mfg. Co.
Lefkowitz & Bros., Inc.
Paillard Products, Inc.
Ruko Company
Service Manufacturing Co.
Stouffer Graphic Arts, Equip.
Superb Photo Accessories Co.
Universal Camera Corp.

CASES—SALON MAILING
Compco Corp.
Durable Fibre Sample Case Co.
Empire M. P. Screen Co.
Fibre Case & Novelty Co.

CELLULOSE TAPE
Industrial Tape Corp.
Minnesota Mining & Mfg. Co.

CHANGING BAGS
Burke & James, Inc.
Eagle Photo Supply Co.
Melrose Manufacturing Co.
George Murphy, Inc.
No Dark Products Co.

CHEMICALS, PHOTO
Ace Photo Laboratories
Ansco
Atkinson Laboratories
Continental Photographic Labs.
D. U. C. Laboratories, Inc.
Eagle Photo Supply Co.
Eastman Kodak Co.
Edwal Laboratories
The FR Corp.
General Photo Products Co., Inc.
General Photographic Supply Co.
G. Gennert Co. of California
Grant Photo Products, Inc.
A. R. Maas Chemical Co.
Mallinckrodt Chemical Works
Merck & Co., Inc.
Merix Chemical Co.
George Murphy, Inc.
National Chemical Co.
Norman-Willets Co.
Robely Laboratories, Inc.
Sarnol, Inc.
Sears, Roebuck & Co.

COLORING MATERIAL
Alden Manufacturing Laboratories
Craftint Manufacturing Co.
Delta Brush Co.
Dyacol Products Laboratory
Eagle Photo Supply Co.
Eastman Kodak Co.
Eimer & Amend
Frederick D. Fisher
Grant Photo Products, Inc.
M. Grumbacher, Inc.
Johnston's Snow White Products
A. R. Maas Chemical Co.
John G. Marshall, Inc.
George Murphy, Inc.
Nat'l Photo & Lantern Slide Color Co.
Roehrig-Bielenberg Co., Inc.
F. Weber Co.
Webster Brothers Laboratories

COLOR METERS
Grover Photo Products
Harrison & Harrison
Stein Photo Distributors

COLOR PRINTING & PROCESSING ACCESSORIES
Ansco
Artisan Guild
Bourges, Inc.
C. A. Birch-Field Laboratories
Continental Photographic Labs.
Craftint Manufacturing Co.
Curtis Laboratories, Inc.
Dyacol Products Lab.
Eagle Photo Supply Co.
Eastman Kodak Co.
Oscar Fisher Co., Inc.
Goetz & Ruschman
Grant Photo Products, Inc.
Grover Photo Products
The Houston Corp.
A. R. Maas Chemical Co.
McGraw Colorgraph Co.
Morse Instrument Co.
George Murphy, Inc.
Nobema Products Corp.
Rosco Laboratories
Sarnol, Inc.
Seekay Supply Co.
Testrite Instrument Co.
United States Stoneware Co.

COLOR TEMPERATURE METERS
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Grover Photo Products
Harrison & Harrison
Photo Research Corp.

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American Photo Laboratories
Semon Bache & Co.
Bausch & Lomb Optical Co.
Bray Optical Co.
Buhl Optical Co.
Burke & James, Inc.
Chess-United Co., Inc.
Ednalite Optical
Miller Optical Co.
Optex Corporation

CONSTRUCTION KITS—ENLARGERS
California Technical Products Co.
Cleveland Instrument Service Co.

COPYING EQUIPMENT & ACCESSORIES
American Gage & Manufacturing Co.
American Photocopy Equipment Co.
Bolsey Corp. of America
Brownie's Specialty Shop
Burke & James, Inc.
C. B. S. Laboratories
Chicago Camera Co.
Cleveland Instrument Serv. Co., Inc.
L. F. Deardorff & Sons
De Groff Laboratories, Inc.
Di-Noc Manufacturing Co.
Eastman Kodak Co.
Emde Products
Gamma Instrument Co.
Garden & Williams
General Photo Products Co.
General Photographic Supply Co.
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E. Leitz, Inc.
Heitz & Lightburn
Migel Dist. Co., Inc.
Photo Reproducing Equipment Co.
D. Paul Shull
N. Teitelbaum Sons

DARKROOMS—PORTABLE
FR Corporation

DARKROOM SINKS
American Hard Rubber
Artisan Guild
S. Blickman, Inc.
Brown Coating & Equip. Co.
Chicago Camera Co.
Oscar Fisher Co., Inc.
Wendnagel & Co.

DARKROOM KITS—Black & White
Arel Incorporated
Eastman Kodak Co.
Edwal Laboratories
The FR Corp.
Mimosa American Corp.
The Neder Corp.
Sears, Roebuck and Co.
Testrite Inst. Co., Inc.

DARKROOM KITS—Color
Ansco
Continental Photographic Labs.
Curtis Laboratories, Inc.
Eagle Photo Supply Co.
Eastman Kodak Co.
Morse Instrument Co.
George Murphy, Inc.
Randall Enterprises
Sarnol, Inc.

DENSITOMETERS
Eagle Photo Supply Co.
Eastman Kodak Co.
General Radio Co.
Photovolt Corporation
Stouffer Graphic Arts Equip.
Webster Instrument Co.
Weston Electrical Instrument Corp.

DESENSITIZERS
Ansco
Eastman Kodak Co.
George Murphy, Inc.

DODGING DEVICES
Polly Products, Inc.

DRYING AGENTS
O. S. Braunstein
Davidson Chemical Corp.
Eagle Photo Supply Co.
George Murphy, Inc.

DYES, PHOTOGRAPHIC
Alden Manufacturing Laboratories
Ansco
Bachmeier & Co.
Curtis Laboratories, Inc.
Dyacol Products, Laboratory
Eastman Kodak Co.
Webster Brothers Laboratories

ELECTRONIC FLASH
Studio Units
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American Speedlight Corp.
D. A. Davenport Mfg. Co.
Eastman Kodak Co.
Electronic Specialties, Inc.
Lightning Lite Co.
Photographic Products, Inc.
J. G. Saltzman, Inc.
The Speedotron Co.
Strobo Research Labs.
Sylvania Electric Co.
Tubes
Amglo Corporation
General Electric Co.
Kemlite Labs.
Sylvania Electric Corp.

ENLARGER COVERS
American Camera & Photo Supply
Blossom Manufacturing Co.
O. S. Braunstein
Burke & James, Inc.
General Photographic Supply Co.
George Murphy, Inc.
Petra Manufacturing Co.
The Saunders Co.
Tikern Corporation

ENLARGER HEADS
Cleveland Instrument Service Co.
Elwood Pattern Works, Inc.

ENLARGING AIDS
Adams Retouching Machine Co., Inc.
Raymond Georg
Nichols Photo Service
Stern & Co.

ENLARGING EASEL HOLDERS
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Elwood Pattern Works, Inc.
D. Paul Shull

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The American Products Co.
Ansco
O. S. Braunstein
Eastman Kodak Co.
Andrew E. Lutz Co.
Hobson Miller Paper Co., Inc.
George Murphy, Inc.
The Nega-File Co.

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Burke & James, Inc.
CBS Laboratories
The Camera Mart
Enteco Industries, Inc.
Hall-Barkan Instrument Co., Inc.
Heitz & Lightburn
E. Leitz, Inc.
D. Paul Shull
Stevens Engineering Co.
Techni-Service
Tikern Corp.

FABRIC—BACKING
Holliston Mills, Inc.
Seal, Inc.
Western Sales Co.

FERROTYPE
Solution
Alden Manufacturing Co.
Burke & James, Inc.
Eastman Kodak Co.
Edwal Laboratories
Ferolene Sales Co.
General Photographic Supply Co.
Merix Chemical Co.
National Chemical Co.
Silver-Glo Co.
Truphoto Products
Tins & Plates
Acme Ferrotype Co.
American Camera & Photo Supply
Apollo Metal Works Co.
Burke & James, Inc.
Compco Corp.
Duophoto Corp.
Eagle Photo Supply Co.
Eastern Metal Supply Co.
Eastman Kodak Co.
George Murphy, Inc.
Sears, Roebuck & Co.
Truphoto Products

FIELD LENSES
Eastman Kodak Co.
The Hartley Co.
E. Suydam & Co.

FILM ACCESSORIES
Adapters:
CM Backs to American Holders
Fidelity Mfg. Co.
Plate Back to Roll Film
Adam Archinal Corp.
Graflex, Inc.
Graham Scientific Instrument Corp.
Gundlach Manufacturing Corp.
E. Suydam & Co.
Techni-Service
No. 120 & 620 to Bantam
Burke & James, Inc.
Adapting Back 4x5 to Use 9x12 cm Roll Film Adapter
A. G Photo Co.
Gundlach Mfg. Corp.
Mar-Bar, Inc.
E. Suydam & Co.
Cleaning Devices
Eastman Kodak Co.
Franklin Photographic Industries
Neumade Products Corp.
Cleaning Preparations
Dracol Products Lab.
Eastman Kodak Co.
Edwal Laboratories
Fisher Manufacturing Co.
Franklin Photographic Industries
Merix Chemical Co.
National Chemical Co.
Rosco Laboratories
Clips & Hangers
A. G Photo Co.
Ansco
Brunner Booth Photo Co.
Burke & James, Inc.
Carr Corp.
Eastman Kodak Co.
Electra Research Corp.
The FR Corporation
Oscar Fisher Co.
Goetz & Ruschman
The Hobar Co., Inc.
Schoen Products Co.
Testrite Instrument Co.
Urell, Inc.
Wolff Manufacturing Co.
Drying Solutions
Goetz & Ruschman
A. R. Maas Chemical Co.
Dryers
Aldine Paper Co.
O. S. Braunstein
Oscar Fisher Co.
Martin Products
Morse Instrument Company
Filmpack Adapters
Graflex, Inc.
E. Suydam & Co.
Film Masks
R. & M. Prod. Develop. Co.
Holders
Alkon Photo Products, Inc.
Ansco
Baco Accessories Co.
Burke & James, Inc.
Eastman Kodak Co.
Fidelity Manufacturing Co.
Graflex, Inc.
Grover Photo Products
Gundlach Mfg. Corp.
Lishing Products Co.
E. Suydam & Co.
Loaders (35mm)
Airequipt Manufacturing Co.,Inc.
Burke & James, Inc.
Ebe Mfg. Co.
Loading Tanks (35mm)
Eastman Kodak Co.
Protective Solution
O. S. Braunstein
Curlo Photo Co.
Eastman Kodak Co.
Kin-O-Lux, Inc.
Neumade Products Corp.
Pinnacle Productions
Ro-Ann Co.
Rosco Laboratories
Sheet Film Sheaths
Burleigh Brooks Co.
E. Suydam & Co.
Techni-Service
Trimmers & Templates
Eastman Kodak Co.
Goetz & Ruschman
E. Leitz, Inc.
D. Paul Shull

FILTER KITS & CASES
Chess-United Co.
Ednalite Optical Co.
Enteco Industries, Inc.
Tiffen Manufacturing Corp.
Voss Photo Products, Inc.
Warner Products, Inc.

FILTER MOUNTS
Burke & James, Inc.
Burleigh Brooks Co.
Chess-United Co.
Eastman Kodak Co.
Ednalite Optical Co.
Enteco Industries, Inc.
H. C. E. Co., Inc.
Stevens Engineering Co.

FILTERS, VIEWING
Burleigh Brooks Co.
Chess-United Co.
Ednalite Optical Co.
Enteco Industries, Inc.
Golden 'B' Mfg. Co.
Harrison & Harrison
Moviette, Inc.
Nicholson Products Co.
Photographic Arts Manufacturing Co.
Photo Research Corp.
Jack Powell
Tru-Lite Research Laboratories

FIXING PREPARATIONS
Ace Photo Laboratories
Atkinson Laboratories
E. I. du Pont de Nemours & Co., Inc.
Eastman Kodak Co.
Edwal Laboratories
The FR Corporation
Mallinckrodt Chemical Works
Mon-Blanc Chemical Laboratories
Sears, Roebuck & Co.

FLASH
Batteries
Bright Star Battery Co.
Burgess Battery Co.
National Carbon Div., Union Carbon & Carbide Corp.
Petrov Photographic Tech. Service
Ray-O-Vac Co.
Sterling Battery Co.
Battery Tester
Bright Star Battery Co.
Wm. Galloway & Sons
Graham Scientific Instrument Co.
Life Industries Corp.
Testrite Instrument Co.
Bulb Tester
Globe Industries, Inc.
Harwood Mfg. Co.
Kriser Corp.
Stouffer Graphic Arts Equipment Co.
Pistols & Powder
Kilgore Manufacturing Co.
I. C. Newman Co.
Synchronizer Focusing Spotlight
Heiland Research Corp.
Jen Products Co.
Life Industries Corp.
Synchronizer Tester
Acra Instruments
L. R. Biber Co.
Cyclops Products
Flashback Sales
Heiland Research Corp.
Novelty Scientific
Photo Research Corp.
Service Photo Suppliers
Stouffer Graphic Arts Equipment Co.
Techni-Service
Wilcox Photo Sales
Flash Bulb Dyes
Dayton Rogers Manufacturing Co.
Jen Products Co.
Rosco Laboratories
Scienta Products Co.
Superb Photo Accessories Co.
Flash Shields & Covers
Blossom Manufacturing Co.
Brooks Manufacturing Co.
Eastman Kodak Co.
Glo-Brite Products, Inc.
Globe Industries, Inc.
Jen Products Co.
N. A. Standard Products
Spear Products Co.
Tikern Corporation
Bayonet Adapters & Sockets
Arel Incorporated
L. R. Biber Co., Inc.
Harwood Mfg. Co.
Life Industries Corp.
Frank W. Morse Co.
Petrov Photographic Tech. Service
Jas. H. Smith & Sons Corp.
Testrite Instrument Co.
Flash Extensions & Accessories
Eastman Kodak Co.
Graflex, Inc.
Heiland Research Corp.
Jen Products Co.
The Kalart Co.
E. Leitz, Inc.
Life Industries Corp.
Mendelsohn Speedgun Co., Inc.
Nordic Mfg. Co.
Peak Photo Products
Powell Products Inc.
James P. Saragino
Service Photo Suppliers, Inc.
Stouffer Graphic Arts Equipment Co.
W. R. Terrill Co.

FOCUSING AIDS
Baco Accessories Co.
Bausch & Lomb Optical Co.
Buhl Optical Co.
Burke & James, Inc.
Burleigh Brooks Co.
C. B. S. Laboratories
Cal-Cam
Cargille Scientific, Inc.
Chess-United Co., Inc.
Chromat-O-Scope
Cleveland Instrument Serv. Co., Inc.
Dayton Rogers Manufacturing Co.
Eastman Kodak Co.
Ednalite Optical Co.
Fedco Products
Frederick D. Fisher
Foto-Rule Co.
General Photographic Supply Co.
Gundlach Mfg. Corp.
Hollywood Cine Products
Hollywood Photo Manufacturing Co.
The Kalart Co.
E. Leitz, Inc.
Melrose Manufacturing Co.
Miller Optical Co., Inc.
George Murphy Co.
Petra Manufacturing Co.
Photographic Arts Mfg. Corp.
Photolix, Inc.
Sarnol, Inc.
The Saunders Co.
D. Paul Shull
Stroba Mfg. Co., Inc.
Sutz Products

FRAMES—ADJUSTABLE
Bawden Brothers, Inc.
Braquette, Inc.
M. W. Carr & Co.
A. J. Ganz Co.
Photo Vision, Inc.
Pictar Co.
Joseph Robin
York Photomount, Inc.

GADGET BAGS
American Camera & Photo Supply Co.
Craig Leather Products Co.
Diamond Case Div., Louis Lefkowitz & Bros.
Emmet Corporation
Hinson Manufacturing Co.
Ruko Company
Service Manufacturing Co.

GLASS
Heat-Absorbing
American Photo Laboratories
Ansco
Semon Bache & Co.
Bausch & Lomb Optical Co.
Burke & James, Inc
Chess-United Co.
Eastman Kodak Co.
Ednalite Optical Co.
Teitelbaum & Sons
Polarizing
Optex Corp.
Polalite Corp.
Teitelbaum & Sons
Three Dimension Sales Co.
Slides
Semon Bache & Co.
Bee-Tee Optical Corp.
Burke & James, Inc.
Compco Corp.
Delphic Photographic Sales
Eastman Kodak Co.
Eric Scientific Corp.
GoldE Manufacturing Co.
E. Leitz, Inc.
Miller Optical Co.
Rosco Labs.

GRADUATES
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Eimer & Amend
Testrite Instrument Co.

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Eastman Kodak Co.

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Chemipure Labs.
Eastman Kodak Co.
Frederick D. Fisher
Goetz & Ruschman
Miller Outcalt Co.
Photo-Mart

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Atkinson Laboratories
A. O. Braunstein
Duophoto Corp.
Eastman Kodak Co.
Edwal Laboratories
The FR Corp.
Lightning Products Co.
A. R. Maas Chemical Co.
National Chemical Co.
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Eliminator
A. O. Braunstein
Robely Laboratories
Test for Wash Water
Apparatus Development Co., Inc.
E. I. du Pont de Nemours & Co., Inc.

IDENTIFICATION—(Equipment)
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I-D-Cal Co.
Tags
Olden Camera & Lens Co.

INKS—(For Writing on Glass & Negatives)
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Eastman Kodak Co.
Eimer & Amend

Higgins Ink Co., Inc.
Johnston's Snow White Products
Sipco Products Co.
F. Weber Co.

INTENSIFIER

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Burke & James, Inc.
Curio Photo
Eagle Photo Supply Co.
Eastman Kodak Co.
George Murphy, Inc.
Jas. H. Smith & Sons Corp.

LAMP BULBS (Other Than Picture Taking)

Burke & James, Inc.
Eastman Kodak Co.
Industrial Devices, Inc.
Jewel Products, Inc.
North American Electric Lamp Co.
Radiant Lamp Corp.
Solar Electric Corp.
Sylvania Electric Co.
Westinghouse Elec & Mfg. Co.

LENSES, PHOTOGRAPHIC

Bausch & Lomb Optical Co.
Bell & Howell Co.
Buhl Optical Co.
Burke & James, Inc.
Chess-United Co.
Eastman Kodak Co.
Ednalite Optical Co.
Elgeet Manufacturing Co.
C. P. Goerz American Optical Co.
Herron Optical Co.
Ilex Optical Co.
Kollmorgen Optical Corp.
Main Electric Co., Inc.
Hugo Meyer & Co.
Miller Optical Co.
Optex Corp.
PhotoLix, Inc.
Projection Optics Co., Inc.
Simpson Optical Co.
Society for Visual Education, Inc.
Viewlex, Inc.
Wollensak Optical Co.

LENS ACCESSORIES

Brushes
American Camera & Photo Supply
Arel, Inc.
Baco Accessories Co.
Burke & James, Inc.
Delta Brush Co.
Eastman Kodak Co.
Eimer & Amend
Miller Outcalt Co.
Rosco Laboratories

Cleaning Solution
Bell & Howell Co.
A. O. Braunstein
Craig Manufacturing Co.
Eastman Kodak Co.
Eimer & Amend
Mitchell Camera Corp.
George Murphy, Inc.
Optical Films Engineering Co.
Rosco Laboratories
Sturr Industries, Inc.
Superfine Lens Cleaner Co.

Coating
Acra Instruments
Burleigh Brooks Co.
Ray Campbell & Co.
Certified Scientific Co.
Chemoptics, Inc.
Chess-United Co.
Ednalite Optical Co.
Gundlach Mfg. Co.
MacCollister and Campbell
Mills Photographic Engineering Lab.
Optical Coating Laboratory
Optical Films Engineering Co.
Pacific Universal Products Corp.
Sturr Industries, Inc.
Techni-Service Co.

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Baco Accessories Co.
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Chess-United Co.
Eastman Kodak Co.
Ednalite Optical Co.
Elgeet Optical Co.
Enteco Industries
Gundlach Mfg. Corp.
Heiland Research Co.
Life Industries Corp.
Main Electric Co., Inc.
Mayfair Camera Co.
Mayfair Camera Stores
Nicholson Products Co.
Raymond B. Oxman
Photoking
D. Paul Shull
Stevens Engineering Co.
Techni-Service

Lens Caps
Baco Accessories Co.
Bausch & Lomb Optical Co.
Bell & Howell Co.
Burke & James, Inc.
Eastman Kodak Co.
General Photographic Supply
Heitz & Lightburn
E. Leitz, Inc.

Shades
American Camera & Photo Supply
Baco Accessories Co.
Burke & James, Inc.
Chess-United Co.
Eagle Photo Supply Co.
Eastman Kodak Co.
Ednalite Optical Co.
Enteco Industries
Garden & Williams
General Photographic Supply
Grover Photo Products Co.
C. P. Goerz American Optical Co.
H. C. E., Inc.
Harrison & Harrison
Heitz & Lightburn
E. Leitz, Inc.
Miller Outcalt Co.
George Murphy, Inc.
Pioneer Scientific Corp.
Polly Products Co.
Ponder & Best
Techni-Service
Tiffen Mfg. Corp.
Voss Photo Products, Inc.

Shades, Bellow Type
Graflex, Inc.

Shade & Filter Holder Combinations
Associated Photo Products
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Bolsey Corp. of America
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Daylight Sales Corp.
Eastman Kodak Co.
Ednalite Optical Co.
Enteco Industries
Garden & Williams
H. C. E., Inc.
Harrison & Harrison
Heitz & Lightburn
E. Leitz, Inc.
Pioneer Scientific Corp.
Polly Products Co.
Ponder & Best
Techni-Service
Tikern Corp.
Warner Products, Inc.

Tester
Photo Research Corp.
D. Paul Shull
Spencer Company

Tissue & Cloth
Aldine Paper Co.
Bell & Howell Co.
Eastman Kodak Co.
Rosco Laboratories
A. Rosmarin
Sarnol, Inc.
Superfine Lens Cleaner Co.

LIGHTING EQUIPMENT & ACCESSORIES

Diffusion Screens
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Bardwell & McAlister, Inc.
Berlant Associates
Capitol Stage Lighting Co.
Eastman Kodak Co.
Garden & Williams
Glo-Brite Products, Inc.
GoldE Manufacturing Co.
Martin Products Co.
Mitchell Camera Corp.
Nichols Photo Service
Optex Corporation
Photo-Mart
Polalite Corp.
Jas. H. Smith & Sons Corp.

Floodlights
Acme-Lite Manufacturing Co.
Bardwell & McAlister, Inc.
Capital Stage Lighting Co.
Compco Corporation
Display Lighting, Inc.
Eagle Photo Supply Co.
Eastman Kodak Co.
General Products Co.
Grover Photo Products
Landes Manufacturing Co.
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Miller-Trojan Co.
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Leonardo Lamp Manufacturing Co.
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Powell Products, Inc.
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Trav-A-Lite Co.
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Eastman Kodak Co.
Rosco Labs.

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Bardon Manufacturing Co.
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Carr Corp.
Compco Corporation
Eagle Photo Supply Co.
Eastman Kodak Co.
Grossman Electric Specialties Co.
Grover Photo Products
Harwood Mfg. Co.
Heitz & Lightburn
Jen Products Co.
Mercury Electric Products Mfg. Co.
Sears, Roebuck & Co.
Shepard Engineering Co.
Jas. H. Smith & Sons Corp.
Testrite Instrument Co.

Voss Photo Products Co.

Flood Reflectors & Clamps
Acme-Lite Mfg. Co.
Arrowhead, Inc.
Bardon Manufacturing Co.
Compco Corporation
Chas. Fischer Spring Co.
Harwood Mfg. Co.
Heiland Research Corp.
Kenart Devices, Inc.
Leonardo Lamp Manufacturing Co.
Peak Photo Products
Jas. H. Smith & Sons Corp.
W. Sobel Mfg. Co.
Strobo Research Corp.
Testrite Instrument Corp.
Whitmore Products

Footswitches
Irving I. Aaron & Associates
Black & Webster, Inc.
Burke & James, Inc.
Camera Specialty Co.
Diamond "R" Agencies
Dimco-Gray Co.
Eastern Photo Mfg. Co., Inc.
Eastman Kodak Co.

General Control Co.
Industrial Timer Corp.
Kriser Corporation
Mimosa American Corp.
George Murphy, Inc.
Pioneer Patents & Products Co.
Truphoto Products
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Oak Photo, Inc.
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Synchro-Flood, Inc.

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Tikern Corp.
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Display Lighting, Inc.
Grover Photo Products
Landes Manufacturing Co.
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Kalart Company, Inc.
Life Industries Corp.
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Jas. F. Smith & Sons Corp.

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Industrial Timer Corp.
Natco, Inc.
Raytheon Manufacturing Co.
Sola Electric Co.
Superior Electric Co.
United Transformer Corp.

Miscellaneous Electrical Equipment
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Calhoun Company
Capital Stage Lighting Co.
Carter Motor Co.
Cordomatic Div. Vacuum Cleaner Corp. of Am.
Dee Bee Labs.
Display Lighting, Inc.
Eastman Kodak Co.
Ewart & Koch
Golden "B" Mfg. Co.
Graflex, Inc.
Grossman Electric Specialty Co.
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Industrial Devices
Industrial Electrical Works
Jen Products Co.
Leonardo Lamp Manufacturing Co.
Life Industries Corp.
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Otto K. Olesen Co.
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Petrick Brothers, Inc.
Photogenic Machine Co.
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Raytheon Manufacturing Co.
Read Photo Manufacturers
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Sprague Electric Co.
Stouffer Graphic Arts Equipment Co.
Superior Electric Co.
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United Transformer Co.
Viewlex Incorporated.

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Goldberg Brothers
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Neumade Products Corp.
Perfection Sample Case Co.

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Continental Envelope Corp.
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Frederick D. Fisher
The Neder Corp.
Schoen Products

Dating
Goetz & Ruschman
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Germain Photo Specialties
X-Acto Crescent Products Co., Inc.

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Burke & James, Inc.
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General Scientific Corp.
Herron Optical Co.
Miller Optical Co.
Optex, Inc.
Optical Films Engineering Co.
Techni-Service

MITTENS, DARKROOM

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Surety Rubber Co.

MOUNTING SUPPLIES

Boards & Folders
Aabalton's Photofit Co.
American Binder Co., Inc.
American Mount & Card Co.
Braquette, Inc.
John Byrnes Co.
California Card Manufacturing Co.
The Camille Co.
M. W. Carr & Co.
Chilcote Company
Cook's of Camden
The Craftmount Co.
Eagle Photo Supply Co.
Eastman Kodak Co.
Empress Novelty Co.
E-P Kardkraft
Erie Scientific Corp.
Frederick D. Fisher
Gross Photo Supply Co.
Arthur Hertzberg & Craftsmen
International Sales Co.
Interstate Picture Frame Co.
Emil Koudelka, Inc.
Walter A. McCabe Co.
E. E. Miles Co.
Miles Kedex Co.
Mounties, Inc.
George Murphy, Inc.
National Card, Mat & Board Co.
B. Oshrin & Brother
Pictorial Frames
Joseph Robin Co.
Savage-Universal Corp.
Sprague-Hathaway Studios, Inc.
A. Sussman & Co.
Voss Photo Products
York Photo Mount, Inc.

Corners
Ace Art Co.
Burke & James, Inc.
Engel Art Corners Manufacturing Co.
General Products Co.
Mounties, Inc.
Ralph O. Pollock
D. Van Liew-Sonn Co.

Hinges
Eureka Specialty Printing Co.
Frederick D. Fisher
Holson Binders, Inc.
Premier Manufacturing Co.

Irons
Dayton Rogers Manufacturing Co.
Eastman Kodak Co.
Seal, Inc.

Papers
Holson Binders, Inc.

Presses, Dry-Mounting
Campus Camera Shop
Dayton Rogers Manufacturing Co.
Eastman Kodak Co.
Seal, Inc.
Sterling Howard

Tissue
Eastman Kodak Co.
Seal, Inc.
Western Sales Co.

MOVIE ACCESSORIES

Accessory Film Magazines
Bell & Howell Co.
Grover Photo Products
Arthur H. Hart
Par Products Corp.
Stevens Engineering Co.

Barn Doors—Snoots—Focus Spots
Bardwell & McAlister, Inc.
GoldE Manufacturing Co.

Batteries for Camera Drive
Bright Star Battery Co.

Battery and Motor Camera Drives
Custom Built Camera Co.
Grover Photo Products
Arthur H. Hart
Reger Mfg. Corp.
Stevens Engineering Co.

Effect Filters
Berlant Associates
Chess-United Co.
Ednalite Optical Co.
Tru-Lite Research Laboratories

Fade Devices
Bolsey Corporation of America
Craig Manufacturing Co.
H. C. E. Co., Inc.
The Moviecraft Co.

Film Cement and Applicators
Ansco
Bell & Howell Co.
Calhoun Co.
Craig Manufacturing Co.
Eastman Kodak Co.
Essannay Electric Manufacturing Co.
Fisher Manufacturing Co.
Inventions, Inc.
Kin-O-Lux, Inc.
Mansfield Industries, Inc.
National Chemical Co.
Rosco Laboratories

Focusing Attachments
Grover Photo Products

Lens Turrets
Grover Photo Products
Arthur H. Hart
Stevens Engineering Co.

Plastic Reels & Cans
Amerline, Inc.

Printers
Burke & James, Inc.
Daylight Co.
Macvan Manufacturing Co.
Schoen Products
Superior Bulk Film Co.

Processing Equipment
Burke & James, Inc.
Neumade Products Corp.
Superior Bulk Film Co.

Reels, Cans, Cases, Etc.
Alden Manufacturing Co.
Amerline Co.
Apex Case, Inc.
Arkay Laboratories, Inc.
Barnett & Jaffe
Bell & Howell Co.
Brumberger Co., Inc.
Burroughs Inc.
Calhoun Co.
Colrod Manufacturing Co.
Compco Corp.
Eastman Kodak Co.
Empire M. P. Screen Co.
Essannay Electric Manufacturing Co.
Fiberbilt Case Co.
Franklin Photographic Industries
G. M. Laboratories, Inc.
Goldberg Brothers
Kin-O-Lux, Inc.
Lishing Products
Madison Products
Howard B. Marks Co.
Mostow Co. (Da-Brite)
Nega-File Co.
Neumade Products Corp.
Perfection Sample Case Co.
Photo-Sphere Co., Inc.
Sawyer's, Inc.
Sears, Roebuck & Co.
Sun Ray Photo Co., Inc.

Rewinds
Bell & Howell Co.
Camera Optics Mfg. Co.
Custom Built Camera Access. Co.
Craig Manufacturing Co.
Franklin Photographic Industries
Kin-O-Lux, Inc.
Neumade Products Corp.
Wenzel Co.

Splicers
Bell & Howell Co.
Griswold Machine Works
Kin-O-Lux, Inc.
Marathon Photo Supply Co.
Micro-Engineering Corp.
Mostow Co. (Da-Brite)
Moviola Manufacturing Co.

Title Letters
California Pattern Letter Supply
Clingtite Products Co.
Hollywood Cine Products
H. W. Knight & Son
Mitten's Movie Titlers
Prospect Products Co.
Sears, Roebuck & Co.
Super-Cam Products

Titles, Ready-Made
Eastman Kodak Co.
Elite Custom Titling Service
Grosso's E-Z Titles
Hollywood Cine Products
Notogravure, Inc.
Prospect Products Co.
Sears, Roebuck & Co.
Super-Cam Products
Title-Craft
Title Slides
U. S. Photographic Equipment Corp.

NEGATIVE AND PRINT IDENTIFIERS

Avery Adhesive Label Corp.
Champion Manufacturing Co.
Eagle Photo Supply Co.
Eveready Photo Products
Grover Photo Products
Roger Wm. Hammill
I-D-Cal Company
Lightning-Lite Co.
Olden Camera & Lens Co.
Ben Parker Co.
Photo-Mart
Stern & Co.
Sutz Products
Varigraph Co., Inc.

NEGATIVE BRUSHES

L. R. Biber Co., Inc.
Burke & James, Inc.
Delta Brush Co.
Eastman Kodak Co.
Nuclear Products Co.

NEGATIVE FILES

Amberg File & Index Co.
American Printing & Envelope Co.
Burke & James, Inc.
Continental Envelope Co.
Eagle Photo Supply Co.
Eastman Kodak Co.
Hobson Miller Paper Co.
Andrew E. Lutz
Mevi, Incorporated
George Murphy, Inc.
The Nega-file Co.
Nu-Style Photo Album Co.

NEGATIVE SCRATCH-REMOVER

Alden Manufacturing Co.
Inventions, Inc.

NEGATIVES, STOCK

Felix Distributing Co.
Photo-Mart

PAINTS & PROTECTIVE COATINGS, DARK-ROOM

Bridgeport Brass Co.
Brown Coating & Equip. Co.
Eastman Kodak Co.
Eimer & Amend
The Holm's Co.
The Lockrey Co.
National Chemical Co.
Slip-On, Inc.
U. S. Stoneware Co.
Wolff & Dolan

PRINTING AIDS

Dryers—Blotter-type
Bernard Products
Compco Corp.
Eagle Photo Supply Co.
Eastman Kodak Co.
General Photographic Supply
Martin Products Co.
Sears, Roebuck & Co.

Embossers
Alves Photo Service
Eastman Kodak Co.
Frederick D. Fisher
Goetz & Ruschman
Andrew E. Lutz

Flattening Solution
Eastman Kodak Co.
Frederick D. Fisher
Merix Chemical Co.
George Murphy, Inc.

Fluorescent Devices
Novelty Scientific Products Co.

Frames
Alden Mfg. Co.
Burke & James, Inc.
Eastman Kodak Co.
Effen Products

Enteco Industries, Inc.
The FR Corp.
Garden & Williams
Mansfield Industries, Inc.
Miller-Trojan
The Neder Corp.
Sears, Roebuck & Co.
Testrite Instrument Co.

Printing Presses
Adams Retouching Machine Co.
Douglas Art Metal Co.

Protective Solution
Aiden Manufacturing Co.
Ansco
Bridgeport Brass Co.
Curio Photo
Eastman Kodak Co.
Merix Chemical Co.

Rollers & Squeegees
Aiden Manufacturing Co.
American Products Co.
Burke & James, Inc.
Compco Corp.
Duophoto Corp.
Eagle Photo Supply Co.
Eastman Kodak Co.
Elkay Photo Products, Inc.
Enteco Industries
The FR Corporation
Grover Photo Products
Mansfield Industries, Inc.
Morrison-Atlas Products
Photo Materials Co.
Radiant Specialty Corp.

Straighteners
A. O. Braunstein
Burke & James, Inc.
Eagle Photo Supply Co.
Morse Instrument Co.
George Murphy, Inc.

Tongs
B. W. Molded Plastics
Baco Accessories Co.
Burke & James, Inc.
Carr Corp.
Compco Corp.
Curio Photo Co.
Eagle Photo Supply Co.
Eastman Kodak Co.
Eclipse Mfg. Co.
Enteco Industries
The FR Corporation
Frederick D. Fisher
Fox Products Co.
Mansfield Industries, Inc.
Schoen Products
Sears, Roebuck & Co.
Testrite Instrument Co.

PROJECTOR STANDS

American Products Co.
Bell & Howell Co.
The Stanley Bormar Co.
Camera Specialty Co.
Colrod Mfg. Co.
Fox Products Co.
Kinnard Co.
Maco Manufacturing Co.
Howard B. Marks Co.
Merrill Lee Co.
Neumade Products Corp.
Parks Products Co.
Petrick Brothers, Inc.
S & D Manufacturing Co.
Jas. H. Smith & Sons
Testrite Instrument Co., Inc.
Wil-Sel Products Co.

PROJECTOR ACCESSORIES

Advertising Displays, Inc.
Apex Video Co.
Barnett & Jaffe
Bausch & Lomb Optical Co.
Bell & Howell Co.
Calhoun Co.
Carter Motor Co.
Chess-United Co.
Davidson Manufacturing Co.
Diamond Case Div.
Eastman Kodak Co.
Ednalite Optical Co.
Empire M. P. Screen Co.
Fibre Case & Novelty Co.
Leatherarts Mfg. Co.
Lightning-Lite Co.
Mills Photo Products
Otto K. Oleson Co.
Otto Engineering Co.
Penberthy Inst. Co.
Person-Hickrill
The Photo Mho Co.
Pioneer Patents & Prod. Co.
Precision Electronics Prod.
Projection Optics Co., Inc.
The Saunders Co.
Schoen Products Co.
Tec Engineering Co.
Technics Company
Viewlex, Inc.

RANGEFINDER AIDS—CAMERA TYPE

General Photographic Supply Co.
Kalart Co., Inc.
Hugo Meyer & Co., Inc.
Photo-Mart
Sutz Products

RANGEFINDER AIDS—POCKET TYPE

Chess-United Co.
Eastman Kodak Co.
Ednalite Optical Co.
Hugo Meyer & Co., Inc.

REDUCERS

Ansco
Atkinson Laboratories
Brumberger Co., Inc.
Dyocol Products Lab.
Eagle Photo Supply Co.
Eastman Kodak Co.
George Murphy, Inc.
Seekay Supply Co.

REPAIRS—Camera, Shutter, Exposure Meters, Etc.

Ace Scientific Labs (S. Gate, Calif.)
Adair & Rhamstine (Detroit)
Adam Archinal Corp. (N. Y. C.)
Aladdin Industries (N. Y. C.)
Ralph Altman (Chicago)
Amico Camera Co. (Utica, N. Y.)
Appleton-Funk (Denver)
August Camera Repair (Hollywood)
B & V Camera Repair Service (Chicago)
Bauman Camera Repair Lab. (Long Beach, Calif.)
Bobs Camera Service (Ogden, Utah)
Lawrence Butler (Chicago)
Camera Clinic (Sioux Falls, S. D.)
Camera Clinic (Kansas City, Mo.)
Camera Craftsman (N. Y. C.)
Camera Repair Service of San Diego
Camera Research & Repair (Los Angeles)
Camera Services, Inc. (N. Y. C.)
Castle Photo Service (Wichita, Kans.)
Central Camera Repair Co. (Chicago)
Central States Camera Repair (Wichita, Kan.)
Chicago Camera Specialists (Chicago)
Cinarco Photo Repair Service Co. (Davenport, Iowa)
H. C. Clark (Cashmere, Wash.)
Cleveland Instrument Service (Cleveland, O.)
Colorado Bellows Service (Denver)
Compro-Flash (Rochester, N. Y.)
Consolidated Instrument Laboratory (Denver)
Dawco Company (Toledo, Ohio)
Detroit Camera Works (Detroit, Mich.)
Eastern Bellows (Waterbury, Conn.)
Ferguson's Camera Repair Lab. (Pasadena, Cal.)
Fotofix Camera Repairs (N. Y. C.)
Fotoshop, Inc. (N. Y. C.)
Foto-Tek (Portland, Oregon)
Fotovision (N. Y. C.)
General Camera Co. (Chicago)
General Camera Repair Shop (San Francisco)
J. C. Glickman (N. Y. C.)
Gould Lens Service (Binghamton, N. Y.)
Arthur H. Hart (San Francisco)
Oscar Heinemann (N. Y. C.)
High Class Camera Repair Co. (Minneapolis)
Holland Camera Repair Lab. (Denver)
International Camera Corp. (Chicago)
Jackson Laboratories (Webster Groves, Mo.)
Jacksons' Camera Store (Miami, Fla.)
Harold C. Levie (Baltimore, Md.)
MacCollister and Campbell (San Francisco)
Mack Camera Shop (Union, N. J.)
Mack's Cameracraft (Portland, Ore.)
E. B. Marjoran (Rochester, N. Y.)
James Marshall (Phil., Pa.)
The Merrill Lab. (Auburn, Maine)
William Meyerowitz (Bronx, N. Y.)
Midtown Optical & Camera Serv. Co. (N. Y. C.)
Mills Photo Eng. Lab. (Hollywood)
Molers Camera Clinic (Wichita, Kans.)
Morgan Camera Shop (Hollywood)
C. W. Moyse (N. Y. C.)
Nickerson (Lynn, Mass.)
Northwest Camera Repair Co. (Minneapolis)
Optical Coating Lab., Inc. (Wash., D. C.)
Pacific Photo Products (Los Angeles)
Petrov Photog. Tech. Serv. (Wash., D. C.)
Photoking Supply (Chicago)

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Republic Camera (N. Y. C.)
Arthur H. Reynolds (Swampscott, Mass.)
Oskar Richtar (Rochester, N. Y.)
R. J. Camera Laboratories (Los Angeles)
Roberts Photo Workshop (Nitcong, N. J.)
James Saragino (N. Y. C.)
Sharman Camera Works (San Francisco)
Jay S. Simms (Monterey, Calif.)
Stevens Engineering Co. (Bolex-Los Angeles)
Techni-Service Co. (N. Y. C.)
Trautwein & Magnus Camera Repair Shop (N. Y. C.)
Turner Associates (Rochester, N. Y.)
Unfried Photo Supply (Buffalo, N. Y.)
United Camera Co. (Chicago)
W. I. Willin & Co. (Alhambra, Calif.)
Willman Camera Service (Phoenix)

RETOUCHING ACCESSORIES

Abrasion-Tone Kits
Alden Manufacturing Co.
DiCarlo Crystal Etcher Co.
Brushes & Pencils
Delta Brush Co.
Eagle Pencil Co.
Eastman Kodak Co.
Germain Photo Specialties Co.
M. Grumbacher, Inc.
Tec Pencil Co.
Erasers
Tec Pencil Co.
Opaques & Solutions
Alden Mfg. Co.
Ansco
Artist's Supply Co.
A. O. Braunstein
Burke & James, Inc.
Churchill Laboratories
Craftint Manufacturing Co.
Curio Photo
Dyacol Products Lab.
Eagle Photo Supply Co.
Eastman Kodak Co.
Raymond Georg
Germain Photo Specialties
Gray-Al Dye Co.
M. Grumbacher, Inc.
Johnston's Snow-White Products Co.
Maurer Photo Co.
Sipco Products Co.
Tec Pencil Co.
F. Weber Co.
Webster Brothers Lab.
Kits & Sets
Alco Photo Supply
Alden Manufacturing Co.
A. O. Braunstein
Dayton Rogers Manufacturing Co.
Eagle Pencil Co.
Germain Photo Specialties
M. Grumbacher, Inc.
Tec Pencil Co.
Knives
Alco Photo Supply
Burke & James, Inc.
Eastman Kodak Co.
Raymond Georg
Germain Photo Specialties Co.
M. Grumbacher, Inc.
Naz-Dar Co.
Tec Pencil Co.
F. Weber Co.
X-acto Crescent Products Co., Inc.
Print-Etching Solution
Dyacol Products Lab.
Jamieson Products Co.
Retouching Stands & Desks
Alden Manufacturing Co.
Burke & James, Inc.
Churchill Laboratories
Germain Photo Specialties
Henry Hjort
Minute Man Photo Products
George Murphy, Inc.
Nega-File Co.
Spotting Colors
American Camera & Photo Supply
Craftint Manufacturing Co.
Dyacol Products Lab.
Eastman Kodak Co.
M. Grumbacher, Inc.
Jas. H. Smith & Sons Corp.
Johnston's Snow-White Products Co.
Webster Brothers Lab.

SAFELIGHTS & FILTERS

American Camera & Supply Co.
Ansco
Artisan Guild
B-W Molded Plastics
Brumberger Co.
Burke & James, Inc.
Compco Corporation
E. I. du Pont de Nemours & Co., Inc.
Eastman Kodak Co.
Eclipse Mfg. Co.
Elkay Photo Products, Inc.
Golden "B" Manufacturing Co.
Minute Man Photo Products
Windman Brothers

SCALES, DARKROOM

Eastman Kodak Co.
Ohaus Scale Corp.
Pelouze Manufacturing Co.

SELF-TIMERS

Alco Photo Supply
Baco Accessories Co.
Burleigh Brooks Co.
Burke & James, Inc.
Camera Specialties Co.
R. W. Cramer Co., Inc.
Eastman Kodak Co.
Mimosa American Corp.
M. H. Rhodes, Inc.
Service Photo Supplies, Inc.
Spiratone
Stevens Engineeering Co.

SENSITIZING KITS

Brush-A-Photo Co.
D.U.C. Laboratories
Lemal Products
Sun Foto Mfg. Co.

SHOULDER-BRACE (To Steady Camera)

Otto Engineering Co.

SHUTTERS

Arrowhead, Inc.
Bausch & Lomb Optical Co.
Eastman Kodak Co.
Graflex, Inc.
Gundlach Mfg. Co.
Ilex Optical Co.
Michigan Photo Shutter Co.
Rosmor Engineering Co.
Hans Unfried Photo Supplies
Wollensak Optical Co.

SHUTTER RELEASE

Body-Type
Burke & James, Inc.
Eagle Photo Supply Co.
Eastman Kodak
Effen Products
Kalart Co., Inc.
Laker Hair Spring Service
George Murphy, Inc.
Cables
Alco Photo Supply
Burleigh Brooks Co.
Burke & James, Inc.
Eastman Kodak Co.
Effen Products
Heitz & Lightburn
E. Leitz, Inc.
Michigan Photo Shutter Co.
Mimosa American Corp.
George Murphy, Inc.
Unfried Photo Suppliers
Cable Extensions
De Groff Laboratories

SHUTTER TESTERS

Hollywood Precision Labs.

SILVER RECLAIMING

Edmund Salvage Co.
Gopher Laboratory
National Chemical Co.
States Smelting & Refining Co.
Ureli, Inc.

SLIDE ACCESSORIES

Binders
Arei Incorporated
Brumberger Co., Inc.
Burke & James, Inc.
Clay Adams Co.
Compco Corporation
Davidson Manufacturing Co.
Delphic Photographic Sales
Eastman Kodak Co.
GoldE Manufacturing Co.
Kimac Company
W. K. Smithson Co.
Society for Visual Education, Inc.
Universal Camera Corp.
Files
Amberg File & Index Co., Inc.
Barnett & Jaffe
Brumberger Co., Inc.
Burke & James, Inc.
Clay Adams Co.
Craftsman's Guild
Davidson Manufacturing Co.
Delphic Photographic Sales Co.
Eastman Kodak Co.
G-M Laboratories, Inc.
Gem Photo Supply Co.
Godshall Paper & Box Co.
Kimac Company
E. Leitz, Inc.
Mills Photo Products
Mostow Co. (Da-Brite)
George Murphy, Inc.
The Nega-file Co.
Newmade Products
Nu-Style Photo Album
Pioneer Patents & Products
Society for Visual Education, Inc.
The UDA Co.
File & Viewing Combination
Craftsmen's Guild
Grosscraft Products, Inc.
Mostow Co. (Da-Brite)
Sears, Roebuck & Co.
Frames, Mounts & Accessories
Burke & James, Inc.
Chromat-o-Scope Co.
Craftsmen's Guild
Delphic Photographic Sales Co.
Eastman Kodak Co.
Emde Products
Erie Scientific Corp.
GoldE Manufacturing Co.
The Houston Corp.
James V. Keys
Kimac Co.
E. Leitz, Inc.
Andrew E. Lutz Co.
Society for Visual Ed.
Tri-Vision Sales Co.
The UDA Co.
Viewers
Arcadia Manufacturing Co.
Bausch & Lomb Optical Co.
Bernard Products
Brumberger Co., Inc.
Chromat-o-Scope Co.
Craftsmen's Guild
Delphic Photographic Sales Co.
Eastman Kodak Co.
Gem Photo Supply Co.
J. & M. Products Co.
Kimac Company
La Belle Industries, Inc.
E. Leitz, Inc.
Mast Development Co., Inc.
Pictar
Pioneer Patents & Products Co.
Pockette Reflex Viewers, Inc.
Pollock Products
Sawyer's
Tikern Corporation
Slide Sealers
Radiant Specialty Corp.

SOLUTION HEATING UNITS

Schaeffer Co., Inc.
Still-Man Co.
Thermo-Mat Co.
Waage Electric Co.

SOUND RECORDERS

Caltron Co.
Capitol Projector Co.
Cine-Pro Corp.
Crestwood Recorder Corp.
George Culbertson
Miles Reproducer Co., Inc.
Movie-Mite Corp.
Movievox Co.
Natco, Inc.
Recogram Recorders Co.
Revere Camera Co.
Senior-Sound, Inc.
C. R. Skinner Manufacturing Co.
Victor Animatograph Corp.
Webster-Chicago Corp.

SOUND RECORDERS SYNCHRONIZED

Miles Reproducers Co.
Movievox Co.
Wilson & Garlock

SOUND TURNTABLES

Caltron Co.
George Culbertson
Natco, Inc.

SPONGES, CELLULOSE

The Barco Chemical Co.
Burke & James, Inc.
Carr Corp.
Industrial Tape Corp.
George Murphy, Inc.

STEREO DEVICES

Advertising Displays, Inc.
James V. Keys
Radex Stereo Co.
Sawyer's, Inc.
Spindler & Sauppe
Tru-Vue, Inc.
David White Co.

TEXTURE SCREENS

E. I. du Pont de Nemours & Co., Inc.

THERMOMETERS, DEV.

Eastman Kodak Co.
Eimer & Amend
Elkay Photo Products, Inc.
The FR Corporation
General Photographic Supply
George Murphy, Inc.
Ohio Thermometer Co.
Sears, Roebuck & Co.
Testrite Instrument Co.
Watrous & Co.
Weston Electrical Instrument Corp.

THERMOSTATIC CONTROLS

Oscar Fisher Co., Inc.
Powers Regulator Co.
Stouffer Graphic Arts Equip.

TIMERS, DARKROOM

Aaron & Associates
Baco Accessories Co.
Burke & James, Inc.
R. W. Cramer Co., Inc.
Diebold, Inc.
Dimco-Gray Co.
Eastern Photo Mfg. Co., Inc.
Eastman Kodak Co.
The FR Corporation
General Photographic Supply
Hankscraft Co.
Lektra Laboratories, Inc.
Lux Clock Manufacturing Co.
Photovolt Corp.
M. H. Rhodes, Inc.
Sears, Roebuck & Co.
Service Photo Suppliers
Terado Company
Walser Automatic Timer
Wil-Mar Co.

TIMERS (WATCH TYPE)

Jardur Import Co.

TONERS

Alves Photo Service
Ansco
Eagle Photo Supply Co.
Eastman Kodak Co.
Edwal Laboratories
Gross Photo Supply Co.
Jamieson Products Co.
Alvin Lohnes Co.
George Murphy, Inc.
The Parker Company
Sulphur Products, Inc.
Webster Brothers Lab.

TRAYS

American Hard Rubber Co.
Artisan Guild
S. Blickman, Inc.
B-W Molded Plastics
Chicago Camera Co.
Columbian Enameling & Stamping Co., Inc.
Compco Corporation
Dayton Rogers Manufacturing Co.
Duophoto Corp.
Eagle Photo Supply Co.
Eastman Kodak Co.
Eclipse Manufacturing Co.
Oscar Fisher Co.
The FR Corporation
Testrite Instrument Corp.
United Photo Tray Co.
Ureli, Inc.
Windman Brothers
Wolff Manufacturing Co.

TRIMMERS

Alfa Machine Co.
American Photo Laboratories
Milton Bradley Co.
Calgary Brothers
Chandler Machine Co.
Duophoto Corp.
Eastman Kodak Co.
Edi Trimming Machines
General Photographic Supply Co.
Ideal School Supply Co.
Laukhuff Mfg. Co.
Mostow Co. (Da-Brite)
Photo Materials
Sears, Roebuck & Co.
Stouffer Graphic Arts Equipment Co.
Tikern Corporation

TRIMMERS—DECKLE

Chandler Machine Co.

TRIPODS

Alco Photo Supply Corp.
American Camera & Photo Supply Co.
American Photographic Inst. Co.
American Products Co.
Ansco
Arrow Metal Products
Artcrafters Industries
Ash Products

Baco Accessories Co.
Bell & Howell Co.
Bernard Products
F. Biel Corp.
Burke & James, Inc.
Camera Equipment Co.
The Camera Mart
Camera Specialty Co.
Cleveland Instrument Service Co.
Craig Manufacturing Co.
Davidson Manufacturing Co.
Director Products Corp.
Eastman Kodak Co.
Effen Products
Fox Products
Garden & Williams
General Photographic Supply Co.
Gundlach Mfg. Corp.
Kammer Company
Kinnard Company
Lightning-Lite Co.
Howard B. Marks Co.
Mitchell Camera Co.
Otto Engineering Co.
Pagliuso Engineering Co.
Parker Company
Precision Camera Equipment Co.
Printex Products
Quick-Set, Inc.
Radiant Manufacturing Corp.
Radiant Specialty Corp.
Read Photo Manufacturers
Ries Camera Co., Inc.
Sears, Roebuck & Co.
Service Photo Suppliers
Sun Ray Photo Co., Inc.
Superior Specialty Co.
Testrite Instrument Co., Inc.
Tri-Una Sales Co.
Tru-Lite Research Laboratories
W-K Manufacturing Co.
Wil-Sel Products Co.
Winn-Billings Co., Inc.
Younger Cine Products

TRIPODS, ROLLING

Alfa Machine Co.
Camera Equipment Co.
L. F. Deardorff & Sons Co.
Lightning-Lite Co.
Parker Company
Read Photo Manufacturers

TRIPOD ACCESSORIES

A. G Photo Co.
A & L Mfg. Co.
Arrowhead, Inc.
B-T Co.
Baco Accessories Co.
Brownie Specialty Co.
Burleigh Brooks Co.
Effen Products
Heitz & Lightburn
Photo Equipment Manufacturing Co.
Precision Camera Equipment
Quick-Set, Inc.
Scientific Enterprises
Si-Pod Co.
Superb Photo Accessories Co.
Tru-Lite Research Laboratories
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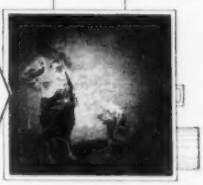

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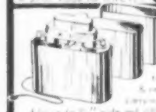

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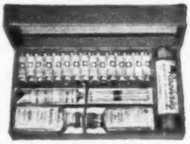

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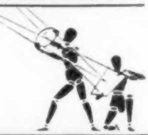

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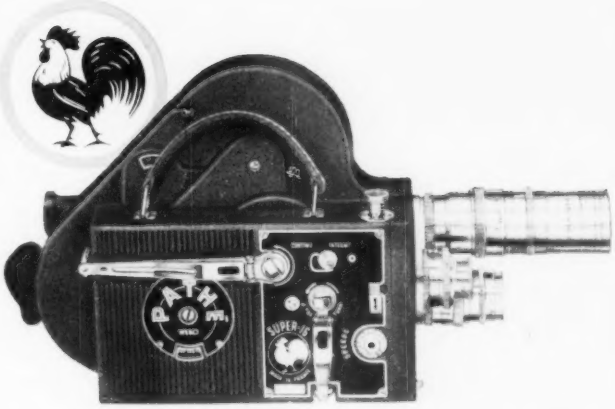

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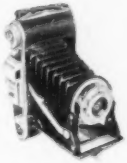

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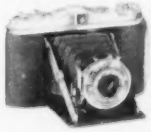

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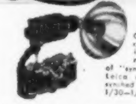

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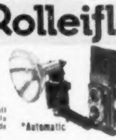

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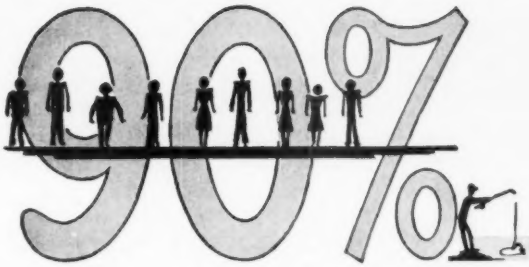

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Fritz Henle

(*Continued from page* 39)

most self-satisfying kind of photography.

It was a search for counterpoint to the double beauty of models and clothes which led Henle to take fashion out of the studio. The studio, to him, is a little too de-personalized, de-naturized. He likes beaches and ruins as fashion backgrounds.

One of Henle's more successful efforts along these lines is a beach shot (illustrated here) of a Trigere gown taken at Montauk Point, near New York City, in 1948. The model had at one time studied ballet and when she tried on the dress, the combination of sea breeze and gracefully flowing skirt gave her the inspiration to dance. She did, and Henle merely followed with his camera.

A second fashion photograph (the bathing suit picture illustrated) was taken in the Virgin Islands on a fashion assignment which later resulted in a travel book. The model, Kathryn Cassidy, presents a kind of photograph difficult to duplicate. In it, she is more than a beautiful model; she is a lovely woman, a human being—appealing.

Although Henle prefers the outdoors for fashion work, he is happy when he can find an answer to an unusual problem within his studio. The studio has huge windows bound with rococo molding. Henle wanted to use this wedding-cake molding as part of a bride fashion photograph (shown in color). So he posed the model near the window. Then he placed a fan to the left to blow the filmy beauty of the net and used a formal lighting setup.

Industry, sometimes considered the dullest of assignments, is full of drama for this photographer. Just this past year he completed a flying trip of more than 50,000 miles for the Cities Service Co. He feels that he had a rare opportunity—a chance to see the tremendous potential of the United States. The oil workers he photographed seemed to him the kind of human beings who make this country grow bigger, richer, freer.

The trip was not without difficulties. The assignment was to photograph the work of the company indoors and outdoors in color and black-and-white. He had two big hurdles: (1) the schedule was so tight that he stayed at some stops for only an hour; (2) for safety reasons, flash equipment is forbidden in an oil refinery.

Henle solved the first problem by the basic answer to all his travel assignments: simplicity of equipment. He took with him two Rolleiflexes—one for color, one for black-and-white. Plus one tripod. Plus film. Period.

He took care of his second difficulty by using a new approach to indoor industrial color. He used existing light.

For all of his love of natural light, Henle feels a job may demand a bit of drama. This is especially true of photo-reporting—such as a 1945 assignment to photograph the behind-the-scenes activities at the Museum of Modern Art.

Naturally, since the Museum is open to

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the public for most of the day, the maintenance work must be done at night. One evening Henle found a cleaning woman standing in a room of sculpture, looking much as she does in an accompanying illustration. He commented that she must be tired of looking at the statues night after night. She replied that she was in love with her job and that one of its rewards was that she was able to work in the midst of such beautiful objects.

After talking to the woman, Henle decided that she was as important to the story as the room itself, yet he wanted to show as much of the Museum's display as possible. He placed one flash to the left, straight on the woman; he placed one flash to the right, diffused so that it would fill in the shadow detail, yet retain the strong arrow-like composition.

The result is that the viewer's eyes tend to move from sculpture to cleaning woman and back.

But Henle doesn't need faraway places or art museums to inspire him. A couple of homebodies do quite well. His wife, the dancer Atti VanDen Berg, has long been his favorite model, but now their two-year-old son, Jan, is an equal pet.

The color photograph of Atti and Jan was taken in Nantucket. In it, Henle again emphasizes a favorite theme: Keep the colors simple. Use three main colors at most (in this case, red, blue, flesh tones) and take care that you don't overload your color photograph with too much color. When the human eye looks at a room full of color, it selects a portion to concentrate on. In the same way, the photographer must be selective in the color views he chooses for his camera to concentrate on.

It is for that reason that Henle loves the soft pastels of the Virgin Islands. The muted tones of the Virgin Islands fashion shot (shown here in color) were obtained by standing in shadow at the top of a flight of stairs and shooting against the light. It was possible to shoot against the light and still retain shadow detail in the dress because of the light reflection from the whitewashed walls.

Last summer when Henle made a trip to Scotland, he was able to finish an assignment two weeks ahead of schedule. Since he was so close to his favorite city, Paris, he went there for a true photographer's holiday.

He took photographs, as any tourist might, of whatever struck his fancy. One of these was the night club singer mentioned earlier. Another such photograph, in color, was of a lovely blonde girl looking down on the streets of Paris from a window. The portrait (see color pages) was done in natural light.

This portrait makes an interesting comparison to that of the studio-posed bride. Both are extremely delicate in color. One is a formal portrait (therefore formally lighted), the other an informal travel souvenir (therefore naturally lighted). That's what we mean when we say that Henle suits his tools to his problem.

Simplicity, craftsmanship, and the proper nurturing of the creative impulse —these are the big words that can be boiled down to: Henle's an inspired, and inspiring photographer.—

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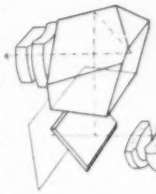

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Mood Tells the Story

(*Continued from page* 43)

of bit parts in shows. I'll bet she'd enjoy acting out a series of mood shots. I'll use my Rolleiflex for this job—it's easy to handle and should keep the camera within your non-studio range. As for lighting, I'll settle for one floodlamp in a reflector. I'll want a tripod, too, because exposures may run fairly long."

And so the next day, deCasseres packed up his Rollei, tucked a lens shade, several rolls of film, a floodlamp, socket, and extension into his gadget bag, and set off for Jean Pearson's apartment. The three of us decided that the emotions Happiness and Despair were basic and should work out well—also Boredom and Flirtation. With three of us working, it only took a few minutes to get up a list of other possible moods, including Fear, Suspicion, Anger, Love, and Loneliness.

The first mood we decided to work on was Loneliness. Joe stood in the middle of the room twiddling with the pan head of the tripod and mumbling to himself. . . . "Loneliness . . . loneliness . . . there's nothing so lonely as being away from some one you love . . . yea . . . I think that's our shot. Okay, Jean, you hop up here on the window sill. First see if you can find a letter . . . one in handwriting, not typed." As Jean sat down on the window sill, Joe pulled out his meter and started mumbling under his breath again, "Heavy backlighting . . . not too much fill-in . . . that means we'll expose for the shadow detail and let the background go light . . . with a fast film, that's f/3.5 at a fifth."

Jean cocked an eyebrow, "Very enlightening . . . very stimulating, but what do I do?" "How about that Mr. Director," I yipped. "All you've done so far is to make noises like a photographer. When do you start to direct?"

"Gently Fischman. If I put Jean into the mood and then went through all this, she'd be completely wooden-faced by now. I get set first, then create a mood, and shoot without any worry.

"Okay Jean, here's the story. . . ." Then Joe went into his spiel. "It's about the middle of the day. You've finished making the beds . . . dusting. You've been alone all morning . . . no one has visited . . . no one has telephoned. It's been almost a month since your fiance went away. As you worked this morning you were busy, but he was almost continually in your thoughts. Then the mailman brought you a letter from him. You stopped work and sat on the window sill as you read it. Now! . . . just now! . . . you think how lonely it is here . . . alone. . . ."

In this manner Joe went through the list of pictures. The trick, if one can call it a trick, was to have all the photographic problems taken care of and then coach the subject. This directing consisted of painting a vivid picture of a circumstance. By dramatizing it deCasseres was able to make Jean "feel" the situation—to actually "live" the part.

In the hallway, Joe was fascinated by a

shaft of light from a small, high hall window. He clamped the flood onto a door with the light thrown up against the ceiling.

"Look at the light," Joe said, "it comes in parallel with the wall and we get terrific texture. It also should give fine modeling to the planes of Jean's face. Textured wall and a high light . . . this is the perfect setting to shoot the mood Despair."

We got outside and about three houses down the street when deCasseres let out a whoop and pointed to a battered vestibule door. It had originally been a French door but the individual panes of glass had been painted over in a half-hearted fashion. Somebody had put a foot through one of them and the jagged glass hung loosely in the frame.

Joe put on his earnest-young-man expression and asked the owner if we might use the vestibule for a couple of minutes to take a few photographs. He got an okay and we went to work. By using a floodlamp in a socket indoors and making use of the diffused natural light, Joe got his shot for the mood Suspicion.

Later on we came upon a flight of basement steps that Joe decided he liked, and he set up for the Fear shot. His idea was that the stone would contrast well with the black iron and carry out the mood of the model.

Toward late afternoon, when it began to get dark, we stopped in at a little coffee shop to warm up and rest for a minute. The place was deserted and as Jean sat toying with her cigarette and coffee, deCasseres began to extend the tripod. He shot Boredom with only existing natural light.

We walked Jean home and were about to leave her on the doorstep when the people on the ground floor of the apartment house next door turned on their lights. A bright square of light illuminated a section of the wall. Once more we unpacked equipment and Joe set up for the picture showing Anger. A man was used as a "prop" on which Jean was to vent her mood. After setting the scene he told her that— "All through the evening this feeling has been building up. It has been a first date . . . a blind date and you didn't like the fellow from the start. Through the entire evening the first impression has grown. All your pet little irritations he rubbed the wrong way. You went to a Western movie . . . you hate horse operas . . . and now you've had enough . . . you're fed up with him. Your dislike has reached the boiling point and the lid is about ready to blow off. Just at this moment, outside your front door, he tries to kiss you. You could have held yourself in check despite the evening, but that is the last straw. Now . . . right now . . . you lash out!"

Back at the studio, Joe was pawing over the enlargements when he looked up at me. "We have captured mood, and in each one of these pictures we turned the unfavorable conditions to our advantage and matched them up with the emotion we wanted to portray. Do you agree?" I looked over the prints and nodded my agreement.

Joe grinned, "Okay . . . pay up!"—▶

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Miss De Brown, R. C. Model

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Tips on Travel Filming

(*Continued from page* 83)

back from the processor, project it and examine each sequence with a critical eye. If there's something wrong with the camera, there's still time to have it repaired.

If you are traveling to a place for the first time, find out as much as you can about it before you depart. You'll be able to do a much better filming job and you can start work at once on your "shooting script." This is a *must* for us and we believe it should be so for everyone who hopes to end up with a well planned show.

The shooting script will vary according to where you are going, how long you're going to stay, and how much film you can afford.

If Aunt Tillie is going along, you can schedule her for several appearances in your shooting script. Try, however, to avoid having your film be one continuous record of Aunt Tillie on a horse, Aunt Tillie feeding the bears, watching Old Faithful and so on *ad infinitum*. Your audience won't appreciate her that much.

Don't be afraid to put a little humor in your films, especially if the joke is on you. One of the things people like best in our travelogues is the ribbing I give myself once in a while on the screen.

Another pre-departure tip is to sit through a Hollywood film for the second or even third time. You can't and don't have to emulate Hollywood's costly special effects, but you can profit by seeing how these experts manage their sequences; how they move from a long shot to close-up; the things they use to identify or set a scene without the need for title or dialogue.

Now let's say you have finished the job of checking equipment, acquired all the information you can on the place you are going to film and put a shooting script on paper. You've packed cameras, tripod, meters, and more than enough film. You're off—by plane, train, bus, or car, not forgetting that there are a few good sequences to be had of your departure and of course the trip itself.

Good things to avoid are an overabundance of long shots; too much scenery, and panning. Be selective. Get close to your subjects. Look at the scenery and rave about it if you will, but realize also that you can't capture all you see, even on color film. Above all, don't forget to lug that tripod along. If there is a sequence that doesn't permit use of the tripod, then make certain that you and the camera are braced as firmly as possible and if practicable, increase shutter speed to double normal rate. Again, make consistent use of that exposure meter.

If your travels are taking you to foreign lands, there is a good deal more to be considered than the technicalities already mentioned. In addition to prechecking equipment before departure it is a good idea to run off another trial roll as soon as possible after you arrive and have it processed at the nearest available laboratory. This is an extra ex-

pense in time and film but it can save you plenty.

Also important in making good travel pictures abroad are the qualities of discretion, courtesy, tact and patience—and one other, the native language. My travels have taken me through 50 countries and while I am fairly familiar with Spanish, French, and a few other tongues, I can't speak them all. The important thing to remember is that if you don't speak the language fluently, have someone with you who does. Without that, you can't hope to get good travel films.

Next in importance is familiarizing yourself with local customs or taboos. The savage tribe in darkest Africa (if that's your destination) may not want their ceremonials to be the subject of your camera. The farmer in France—or Nebraska—may be equally unwilling to give you a good human interest sequence if you proceed without due courtesy.

These human interest sequences showing native peoples at work or at play can make your films extremely effective.

When you are at last headed for home with still some footage left for final sequences or for places you may have missed on the outbound trip, don't throw away that shooting script. There's still work to be done.

If the processed film has preceded your homecoming, neither you nor your family will be able to wait to see what you've got. You'll set up the projector and run through every roll. What happens?

That beautiful pan shot you wanted so much is just a shaky, fast blur. The native dancers are sharp and the color is wonderful—too bad you cut the heads off of those two on the end. And that one sequence where you knew you should have but didn't take time to set up the tripod is jumpy and out of focus.

Cheer up, brother! They can't all be that bad. In fact if you have done a little pre-thinking and careful shooting you'll find a lot of good film. Editing and whatever special effects you can muster in titling will make it better.

Study your shooting script again and take time to consider your future audiences—you aren't going to be the only one to see the film, you know. The shooting script will help you in editing.

Even if you did like and go overboard on footage with certain sequences, they may not appeal to all. Be smart and keep only the best. Don't hesitate to cut. If you planned your sequences carefully, you won't need too many titles, but put them in where essential. In our travelogues we shoot about two to one; that is, a film totaling 3100 feet is generally edited from about twice that length. The amateur doesn't need to be so fussy and can do better. Remember, though, that it is far smarter to run 15 minutes of good film than 45 minutes of reels which call for "explanations" frequently during the showing. Your audience can't and doesn't want to see what you *almost* got.

With your film edited, titled, spliced and on the reel you can invite one and all to take a good look. You can skip the apologies—they won't be needed. Good shooting and good showing!—

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"We're in the Navy"	Wallace Beery	5
"Lady Windermere's Fan"	Ronald Colman	5
"Eagle of the Sea"	Ricardo Cortez	5
"Lost World"	W. Beery & L. Stone	5
"The Americano"	Douglas Fairbanks	5
"Last of the Mohicans"	All Star Cast	5
"Captain Swagger"	Rod La Rocque	5
"Yankee Clipper"	Wm. Boyd	5
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8mm, $5 Per Reel — 16mm, $7 Per Reel

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TRADE NOTES AND NEWS

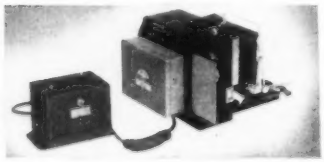
FLASH USERS are offered a new attachment for 4x5 press-type cameras to increase the versatility of the flash unit. The Flash-Trak, manufactured by the Nordic Mfg. Co.,

Flash bracket varies lighting angle.

1 E. 22nd St., Minneapolis 4, Minn., is a flashgun camera mount designed to enable the gun to be moved in a 90-degree arc without removing it from the mount. The flashgun can be locked and released by a finger-tip control. The price is $12.95 including tax. Write the manufacturer for complete information.

CHECK THE DIRECTORY section of this issue of POPULAR PHOTOGRAPHY for new and old items of photographic equipment that are on the market today. New products announced too late to be included in the Directory section appear in the TRADE NOTES department, together with new items in classifications for which detailed descriptions are not provided in the Directory. Look under the appropriate Directory heading for new items announced this month, such as the Rectaflex 35-mm camera distributed by Director Products Corp.; the Rembrandt Portrait camera manufactured by Burke & James, Inc.; the Praktiflex II 35-mm camera distributed by Ocean Photo Supply Co.; the Dover Dual Lens still camera manufactured by Dover Film Corp.; the Steinock A-B-C Wrist Camera distributed by the Ercona Camera Corp.; the "Model" Argoflex reflex camera manufactured by Argus, Inc.; the new Rolleicord with built-in synchronization and the Automatic Rolleiflex with *f*/2.8 lens, distributed by Burleigh Brooks Co.; the Embassy 3-lens Turret movie camera manufactured by DeJur-Amsco Corp.; the Super De Luxe projection screen manufactured by Aurora Industries; the Radiant Automatic projection screen made by Radiant Mfg. Corp.; the Deco ABC film developer introduced by Development Engineering Co.; the Platar movie lens manufactured by Photographic Arts Mfg. Co.; the Performer 150 Delineascope made by the American Optical Co.; the Pro-Deluxe PD-40 electronic flash unit manufactured by Epco Products, Inc.; the TDC Professional 500 and Professional 750 still projectors introduced by the Three Dimension Co.; the Beacon Two-Twenty-Five still camera made by Whitehouse Products, Inc.; and the Flexarette III twin-lens reflex and Etareta 35-mm miniature distributed by the American Equipment Co.

A REDESIGNED MODEL of the Aristo Cold Grid Light Pack is announced by Aristo Grid Lamp Products, Inc., 106-23 Metropolitan Ave., Forest Hills, N. Y. The Model II, to fit standard 4x5 press-type cameras, is lighter and more compact, and the lamp itself attaches to the camera back



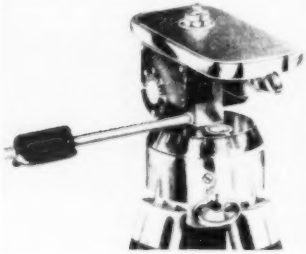
New camera-enlarger has separate power pack.

while the power pack is in a separate unit with sufficient wire for it to be located out of the working area. For complete information, write the manufacturer.

LIGHT SUPPORTS for camera mounting are introduced by Arrow Metal Products, 108 N. Jefferson St., Chicago 6, Ill. with its new Compact-O-Lite collapsible light units. Available in 2 models—one to accommodate 2 G-E 375-watt lamps and one that handles 4 lamps. Each model is available with or without dimmers. Complete with pistol grip and tripod socket screw, the unit is priced from $5.95 to $11.95. A suitcase-type carrying case costs $6.95.

A BAYONET ADAPTER to fit the new Automatic Rolleiflex with *f*/2.8 lens is introduced by Enteco Industries, Inc., 610 Kosciusko St., Brooklyn, N. Y. The adapter accommodates a Series VI filter and the Enteco VIA lens hood. Complete with insert ring, the adapter costs $2.95. The VIA lens hood costs $2.

FOR STILL AND MOVIE cameras, the new G. W. Paramount tripod is introduced by its distributor, Camera Specialty Co., 50 W. 29th St., New York 1, N. Y. The 3-section tripod measures 20½ inches closed and ex-

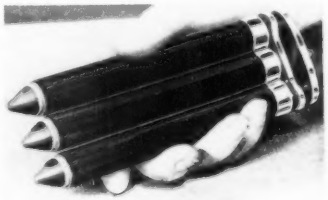


Pan-tilt tripod head with built-in level.

tends to 61 inches. The top section of the tripod is adjustable to any height. The tripod is furnished with metal tips which can be covered by rubber tips by pressing the ring on each leg. The panhead has engraved angular points for panning, and tilting, and a spirit level. The price is $29.95 plus tax.

A TELEPHOTO LENS for the Alpa Reflex is introduced by Heltz & Lightburn, 16 W. 96th St., New York 24, N. Y., distributors of the Alpa. The focal length of the new Alefar *f*/4.5 lens is 180-mm and it is made up of 4 elements in 2 groups, with all surfaces coated. The price is $182 including tax.

TWO POCKET TRIPODS produced in Germany are made available by Camera Specialty Co., 50 W. 29th St., New York, N. Y. The G. W. Master Pocket tripod measures



Ten-section tripod folds into compact unit.

7 inches closed and extends to 48 inches. Weighing 10 ounces, the 10-section tripod is finished in rubber cord with a chrome top and rubber tips. It costs $9.75 plus tax. The 7-section G. W. Baby Pocket tripod measures 9 inches closed and extends to 4 feet. Made of tubular aluminum and weighing 8 ounces, the tripod is priced at $6.95 plus tax.

FOR ELECTRONIC FLASH use, the new Anglo Ultra-Reflector with Alzak aluminum surface is introduced by the Anglo Corp., 4234 Lincoln Ave., Chicago 18, Ill. The

New reflector for ultra-speed flash units.

7¾-inch reflector is available with socket mounts to fit most standard flashtube bases and in a choice of either lamp stand fittings or spring clamps. Write the manufacturer for prices.

TO ELIMINATE camera jar when hand-holding still or movie cameras, the Caddy Shur-Grip is introduced by The Caddwell Corp., 400 N. Camden Dr., Beverly Hills, Calif. The device is built like a pistol grip and weighs 2 ounces. The camera holder has a standard tripod screw at its top to fit most cameras. The price is 98 cents.

TO CONVERT the 3 Versatile enlarger models to "cold light" operation, the Koolite Heads are introduced by DeJur-Amsco Corp., 45-01 Northern Blvd., Long Island City, N. Y. The new enlarger heads can be mounted in place of the standard condenser heads by the user without any tools. The Koolite unit has 30-watt consumption and is for a-c use only. The price of the Koolite for the Versatile I or II is $21.75, for the Versatile Professional, $31.75. Both prices include tax.

AN EYE-LEVEL FINDER for the Kine Exakta is introduced by Exakta Camera Co., Inc., 46 W. 29th St., New York 1, N. Y. The new Zeiss Pentagon-Prism Viewfinder

Eye-level prism finder slips over reflex hood.

slips over the open hood of the Exakta camera. The viewfinder, using a 5-surface prism, costs $48.

FOR AERIAL FILM from 5¼ to 9½ inches in width, the Aerial Outfit, an adjustable developing kit, is introduced by Camera Specialty Co., Inc., 50 W. 29th St., New York, N. Y. The unit consists of 2 adjustable reels, a loading platform with adjustable winding levers, 4 metal tanks, and a case. Write the manufacturer for price.

A NEW LINE of gadget bags made of Textlyde, a plastic leather-like fabric, is announced by Ruko Co., 3 W. 18th St., New York 11, N. Y. The fabric is waterproof, fireproof, and stain resistant. Available in 5 different styles, the new gadget bags feature outside pocket with snap lock, inner pockets, full-length zip locks, and hard bottoms with studs. Write Ruko for complete information.

ESPECIALLY GROUND and formulated for hand coloring photographic prints, the new Grumbacher Phototint Oil Color Sets are introduced by M. Grumbacher, Inc., 460 W. 34th St., New York 1, N. Y. The method used with these colors eliminates the need for preparing the prints with medium or using colors of two different strengths. The

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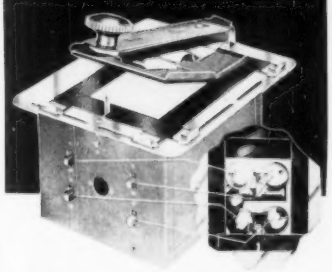

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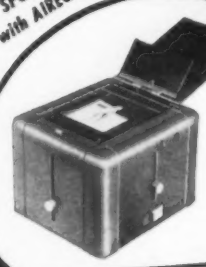

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A REFLEX FINDER-MAGNIFIER designed for the Cine-Kodak Special is offered by Par Products Corp., 926 N. Citrus Ave., Hollywood 38, Calif. The unit features 7x magnification for composing and 15x magnification for critical focusing; it can be used with cameras employing 100, 200, or 400-foot magazines; the magnifier is removable from the camera; the image obtained is erect and corrected from right to left; and the magnification is variable from 5x to 20x at an additional cost. For prices write the manufacturer.

FLASH USERS are offered a compact unit consisting of a series of shields and filters held together by a pivotal disk clamp by the Spears Products Co., 233 Caxton Bldg., Cleveland 15, Ohio. The new Spear Clip-On Flash Shield is made of non-shatterable 3/16-inch plastic. The Standard model has a clear shield and a diffusor; the De-luxe model has the clear and diffused shields and a blue filter shield, too. This one is for use indoors with daylight-type color film and clear, uncoated bulbs. Models are available to fit most reflectors, and prices range from $1.95 to $3.25.

KODAK REFLEX OWNERS can adapt their cameras for picture taking on Kodak 828 film size with the new adapter introduced by Eastman Kodak Co., Rochester 4, N. Y. The unit, which enables the user to make 8 exposures on Bantam film, consists of a translucent acetate viewfinder mask, a metal back-frame mask, and two spool adapters. The price of the complete unit is $5.

FOR BULK FILMSTRIP storage, the new MF-6 cabinet is announced by the Neumade Products Corp., 330 W. 42nd St., New York 18, N. Y. The latest model has an improved indexing and filling feature. Write the manufacturer for complete information.

A SWIVEL-TYPE TRIPOD head for small and medium-size still cameras is being manufactured by the B-T Co., 277 E. Erie St., Milwaukee 2, Wis. The new Tip-Top swivel head has a threaded ring which adjusts the tension against the oversize ball, resulting in a 360-degree horizontal swing with a 180-degree vertical swing. The unit can be installed without tools, either permanently or temporarily, on a tripod. The price is $2.

CURVED PICTURE FRAMES that display photographs under bent glass are introduced by Nemes Furniture Factory, 2631 Lehmann Ct., Chicago 14, Ill. The unusual design gives a 3-dimensional effect to the picture. Small hooded lights are available to illuminate the picture from above or below, if desired. The sizes include 5x7, 8x10, 9x11, and 11x14. Write the manufacturer for prices.

NEWS NOTES: The Hartford Fire Insurance Co. of Hartford, Conn., will supply POPULAR PHOTOGRAPHY readers with photographic equipment identification cards free of charge upon request to them.

The new Model F Hollywood Titliner is now available for aligning titles and close-up work, the manufacturer, Hollywood Cine Products, Lakeland Village, Elsinore, Calif., announces.

For users of View-Master stereo slides, the V-M Junior Chest to hold the Junior Projector, viewer and 100 reels is announced by The Sergeant Co., Box 501, Easton, Pa. The price is $4.45 including index cards.

Graflex, Inc., Rochester, N. Y., reveals its new prices for the Century Graphic. With Graflok back and 103-mm Trioptar f/4.5 lens and film holder, but without optical viewfinder, the camera now costs $99.50. With optical viewfinder the camera is priced at $106.50. The Century Graphic is now available factory-fitted with any suitable lens already owned by the purchaser. Its price, complete with Graflok back and fitting of the customer's lens, is $76 less optical viewfinder.

The Beattie Portronic automatic portrait camera is now available with a new magazine built for personal identification work, according to the manufacturer, Photographic Products, Inc., 955 N. Mansfield Ave., Hollywood 38, Calif.

The latest eveready case announced by the Diamond Case Div., Louis Lefkowitz & Bro., Inc., New Brunswick, N. J., is for the Kodak Pony camera. Featuring a curved, detachable top, the case sells for $8.

The Condor I 35-mm miniature still camera made in Italy is now being distributed by Director Products Corp., 521 5th Ave., New York N. Y., it is announced.

The Kodak Photographic Notebook is now being supplied in a new style and at the reduced price of $1.25, Eastman Kodak Co. reveals.

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HOLLYWOOD Film

Why the Wide-Angle?

(*Continued from page* 51)

well the photographer has handled his material. We can apply that lesson to the wide-angle lens. Here, too, it is a question of a new viewpoint, a new angle. You can use it to produce distortion, or to give an exciting new view of the familiar.

Korling always selects a lens of the focal length that will do the job for him—that will put the emphasis where he wants it, whether in the foreground or distance. He uses a 4x5 view camera of the type that is extremely flexible, with all the necessary swings and tilts. To minimize unwanted "distorted" images, he suggests keeping the axis of the lens centered on the negative area and using the tilt-front adjustment in preference to the rising or sliding front. Yet he makes exceptions to this rule when he wants to place emphasis on a subject near the edge of his picture for an effect. He can then employ the lateral shifts on his camera to place the marginal rays of the image (with some apparent distortion) where he wants them.

Many photographers never use any camera adjustment other than the lateral shifts of the front. For these, Korling has an excellent bit of advice. If you've ever tried to use the rising front on your press camera to avoid foreshortening in the picture of a high building, you've found to your dismay that the rising front is worthless with the customary 5 or 5¼-inch lens. These "press" lenses just barely cover the 4x5 negative when centered; if moved off-center they cut corners, giving you blank film in the corresponding parts of the negative. For normal operation, the adjustments on the front of a press camera cannot be used with less than about a 7½-inch lens. This, however, is too long for many of the assignments on which such cameras need those front adjustments—architectural exteriors and interiors, extreme low angle shots, and so on. For this purpose Korling recommends an additional 5 or 5¼-inch lens. Only it should not be a normal lens, but a wide-angle lens. At first thought this may sound strange: one always thinks in terms of a 3 or 3½-inch wide-angle for a 4x5 camera. But assuming you fill the negative, this lens will not give you the same viewpoint as the 5 or 5¼-inch lens. Although a 5¼-inch wide-angle lens will not include any more image than the 5¼-inch normal lens, it will cover far more than the 4x5 inch negative area. Thus it becomes a valuable tool on the standard press camera for shots that require a "normal" viewpoint with the use of lateral shifts of the lensboard.

For most of Korling's work, however, the ordinary press camera is inadequate. His camera has full adjustments on the back as well as the front, and he uses them constantly. He says it's easy to learn to use camera swings; just keep swinging until you get what you want! Focusing is probably the greatest hindrance to the

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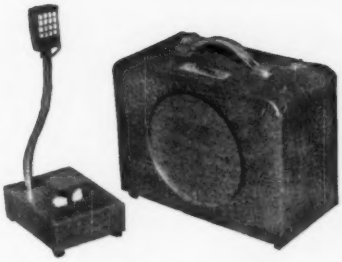

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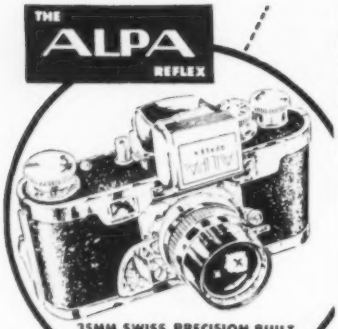

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correct use of wide-angle lenses, particularly for special effects. One of Korling's gadgets has helped him considerably. It is simply a loupe—a magnifier such as jewelers use—which can be held in the eye, monocle style. Most photographers examine a groundglass from directly in back. Korling examines it at an angle, especially when he gets to the corners. He places his eye, with the magnifier, in such a position that he is looking through the groundglass toward the center of the lens. Try it; the difference in image brightness will delight you.

All of these are technical details, however, and Torkel Korling, like all sensitive camera artists, is not particularly enamored of techniques. Korling is regarded by those who know him fairly well as an expert technician, a master of processing, a photographer who designs and builds his own equipment. But these people know him only fairly well. Those few who know him very well know that he is not really as fascinated by equipment as are some photographers. His greatest concern is how to make his pictures more meaningful.

An outstanding example of this is his picture of the stockroom in a large Chicago warehouse. No, it was not made with flash. Korling set up quickly, took the picture by existing illumination, placed and posed his models with meticulous care. Not that he is averse to using flash for shooting action—it's simply that this picture didn't call for it.

On the warehouse ceiling there was a long row of lights overhead. He raised his camera slowly until the overhead conveyor belt just hid all the light fixtures; then he lowered it slightly so there was a line of light marking the edges of the conveyor. These overhead lights, plus overhead light bulbs in the stock alleys and concealed from direct view, furnished all the illumination for the picture. Having selected a viewpoint so that the overhead lights were out of range and the many parallel lines converged in the top center of the picture, he had a scene on his groundglass with a feeling of vastness and immensity. It was now easy to take a time exposure. But Korling never takes such pictures without people in them. Even when he's photographing a machine that is completely automatic, he puts a man or woman into view to give life to the scene. ("How can you tell it's automatic if there's nobody standing by not working it?")

He selected several of the stock boys and posed them to add story and composition. The one in the middle distance, throwing an empty carton onto the overhead conveyor, not only gives meaning to the conveyor but helps carry the eye back. His pose is such that he can hold it easily. The boy in the left foreground shows the use of stock trucks; he too is posed so he can hold it. The boy in the right foreground has a difficult pose, but he was selected not only for his ability to hold the pose, but for his grace on skates (he is an exhibition skater in his spare time).

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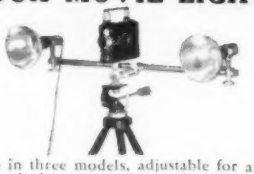

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CORRECTION!

We regret that corrections for our March advertisement were submitted too late for insertion. The word "uncoated" should have appeared after the 1 inch f1.5 THC, 3 inch f4 Telate, and 1½ inch f1.5 THC.

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and lighting lift it far above the routine wide-angle shot. More important, however, was Korling's use of the wide-angle lens combined with proper camera placement to make the scene unfold or roll out from almost directly below, to directly opposite.

This dramatic two-directional viewpoint, resulting from the dynamic use of the wide-angle lens, is more obvious in the picture of the woman sewing parachute cloth. At first glance this doesn't seem to be a wide-angle shot at all. A little thought will remind you, however, that normal lens and normal viewpoint would give you a picture represented by perhaps the upper right quarter of the picture space. The camera here is actually in what might be the normal camera position. But instead of just showing the woman and her machine, the work has been brought around and forward in a graceful S-curve to right within a few inches of the lens. As a result you see detail in the four parallel rows of stitches her machine is making on the cloth.

This sweep of viewpoint need not be from forward to below. It can be from forward to one side, as in the case of the long machine gathering together printed pages of *Fortune* magazine for binding—a picture Korling made for R. R. Donnelley, Chicago printers. Try covering the left third of the picture. This gives you the sort of thing produced by a lens of normal focal length. But it wouldn't have the same punch, would it?

In order to demonstrate the difference in results that can be obtained with normal and wide-angle lenses, Korling rounded up his three youngsters, put them to work at a jigsaw puzzle, and set up a 4x5 view camera. The first of his comparative pictures was made with a 20-cm lens at about six feet from the near edge of the table. He then changed to an 8-cm wide-angle lens and moved his camera into a position 20 inches from the table edge and at approximately the same height as for the first exposure. In the second shot he was able to get the two-directional viewpoint—looking straight ahead at the children and also down at the puzzle. The extreme depth of field obtained with the lens of shorter focal length made it possible to get over-all sharpness. Notice in the wide-angle shot how foregound objects are enlarged and emphasized, telling the story more clearly.

As for you, you can approach similar effects with wide-angle lenses on cameras without swings, or even with ordinary cameras fitted with supplementary lens attachments. Where the extremely long exposures are no hindrance, you can get some of these effects with a pinhole lens. You can work out the technical details for yourself. Just keep in mind what the two-direction viewpoint will do for you; use whatever techniques and skills you think will best give you that viewpoint, and go to it.

You may not get what Korling gets—because you aren't Korling. But you will get an addition to your vocabulary in the language that is photography, an added way to say things you want to say, in a way that only you can say them.—▶

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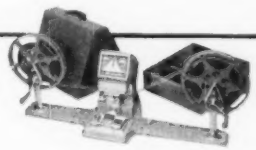

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Photography Takes a Trimming

(*Continued from page 79*)

like a gothic arch. Speaking of architectural subjects, sometimes the tapering off of a building in linear perspective leaves vast blank areas of sky or foreground. Trimming them off will call greater attention to the perspective of the picture, exaggerating the effect of distance.

Do we have to confine ourselves to straight lines and smooth curves? Sometimes a portion of the subject of a picture seems to want to burst out of its frame somewhere. Maybe something seems to be going too fast for the camera and the propeller or bow or jib or nose wants to get out of the usual confines of the picture. You have to have a sense of humor to appreciate most pictures of this type, but there is a place for them. The accompanying examples show what I mean.

It is possible to get away from straight lines entirely if you want to. In the way of smooth, regular curves, the circle is first to come to mind, and is also by far the easiest to make. Such an outline would appear best suited to included material which predominated in circular lines. The example used as an illustration fulfills this requirement unusually well.

Just as the circle is related to the square, so is the ellipse related to the more normal rectangle. The relationship between frame and shape of included subject with the ellipse is most often found with the human face or head in a portrait. With either circle or ellipse, probably the best way to accomplish the trimming is to make a pattern of cardboard, cut it out, and mark around it with a pencil line on the print. Careful work with the scissors should finish it.

Now when it comes to irregular trimming to emphasize some outstanding characteristic of your material, you can trim right down to the outlines of your subject. This stunt is probably most often practiced on a standing figure by mounting the print on a piece of plywood or similar backing and trimming with a jigsaw to produce a "statuette."

There you have it—something about the conventional proportions, and more about what can be done to escape from the conventional when there is justification or just for the fun of it. The examples given are merely suggestions to stimulate your imagination. You can adapt these ideas to your own pictures, whether they are prints or color slides for projection.

I feel sure that many a studio, den, or even living room would be a livelier and more interesting place with some of these examples worked out from your own negatives and hung on the walls. I have heard the walls of a salon compared to a picket fence, with each print so much like the other in format and mounting. In a fence it would be the broken picket that would catch the eye. Who knows, maybe someone might come up now and then with a different trimming done sufficiently well to startle us all by making its place even in such august company. It could happen.—

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Calendar of PHOTOGRAPHIC EXHIBITIONS

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51st Annual Photographic Salon*, Portland Society of Art, Portland, Maine.

On exhibit at L. D. M. Sweat Memorial Art Museum, Portland, Me., April 16 to May 14.

Second New York International Color Slide Exhibit*, New York Color Slide Club, New York, New York.

Closes April 20.
Entry fee $1. Four 2x2 slides allowed.
Exhibited by projection at Central High School of Needle Trades, 225 W. 24th St., New York City, May 5.
For information and entry blank write Paul J. Wolf, 354 Fort Washington Ave., Hawthorne, N. Y.

International Exhibition of Photography, Preston Scientific Society and Preston Camera Club, Preston, England.

Closes April 28. Entry blanks must be in by April 21.
On exhibit at Harris Art Gallery, Preston, England, May 19 to June 3.
For information and entry blank write C. A. Lewis, Esq., 71 Connaught Rd., Preston, Lancashire, England.

Third Annual Exhibition of Marine Photography*, James River Camera Club and The Mariners' Museum of Newport News, Virginia.

Closes May 5.
Entry fee 25 cents per print, minimum of $1, six prints allowed.
On exhibit at Mariners' Museum, Newport News, Va., May 7 through June 4.
For information and entry blank write Marcus F. Ritzer, Jr., 1234 Ferguson Ave., Stuart Gardens, Newport News, Va.

Ninth Cincinnati International Salon of Photography*, Associated Camera Clubs of Cincinnati, Cincinnati, Ohio.

Closes May 12.
Entry fee $1 for four entries in one of three sections.
On exhibit at Cincinnati Art Museum, June 1 to 15.
For information and entry blank write H. G. Balthasar, 6541 Elwynne Drive, Cincinnati 36, Ohio.

12th International Salon of Nature Photography*, Buffalo Museum of Science, and Science Museum Camera Club, Buffalo, New York.

Closes May 13.
Entry fee $1 for each of two sections, black-and-white or color.
On exhibit May 16 through June 13 at Buffalo Museum of Science.
For information and entry blank write *Hobbies*, Buffalo Museum of Science, Humboldt Park, Buffalo 11, N. Y.

Color Print Competition*, Color Division, Photographic Society of America, Philadelphia, Pennsylvania.

Closes May 20.
No entry fee for members of PSA. Entry fee for non-members, fifty cents. Four prints, any process, allowed.
On exhibit at date and place to be announced.
For information and entry blanks write Paul J. Wolf, 354 Fort Washington Ave., Hawthorne, N. Y.

1950 International Southwest Salon of Photography*, Southern California Association of Camera Clubs and San Diego County Fair, San Diego, California.

Closes May 29.
Entry fee $1 for four prints and/or slides.
On exhibit at San Diego County Fair, June 30 to July 9.
For information and entry blank write Salon Secretary, Box 578, Del Mar, Calif.

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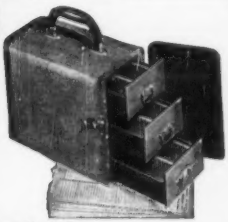

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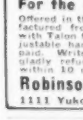

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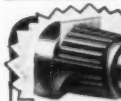

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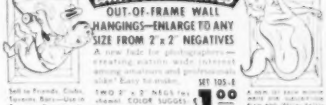

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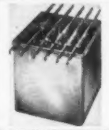

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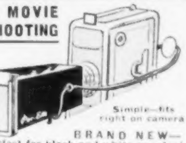

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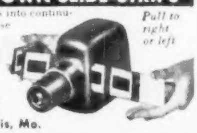

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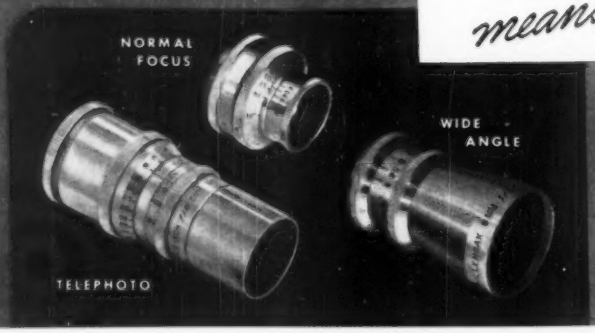

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